



Together through life sciences.

MetaXpress® Software:

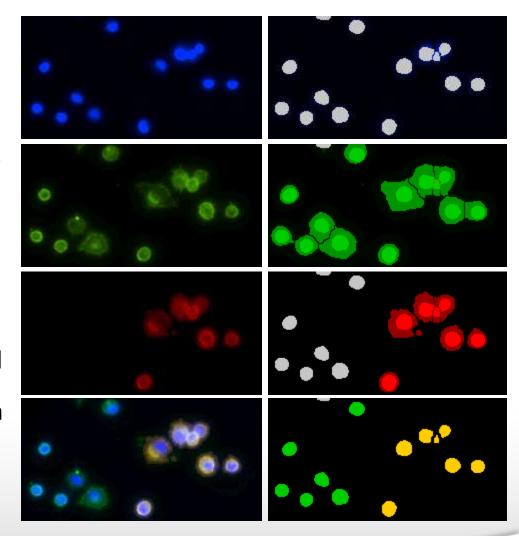
Multi Wavelength Cell Scoring

Module

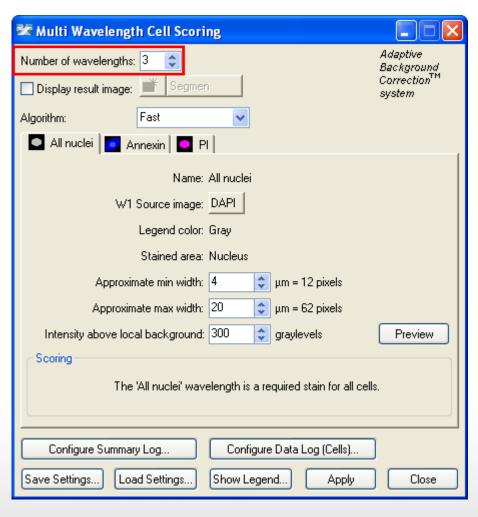


Multi Wavelength Cell Scoring (MWCS) Module Overview

- The MWCS module can be used to analyze cells imaged in 1-7 wavelengths
- The first wavelength should always be a stain for all nuclei (e.g. DAPI, Hoechst, or DRAQ5)
- With just 1 wavelength, it can be used for basic cell counting
- With 2 or more wavelengths, it will score cells as positive or negative for each wavelength and assign it a "profile" of its score in each wavelength

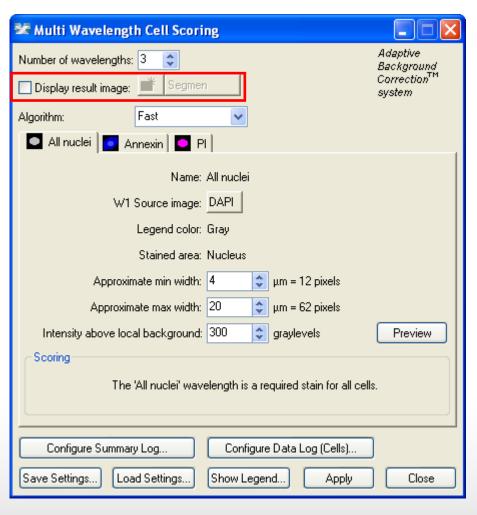




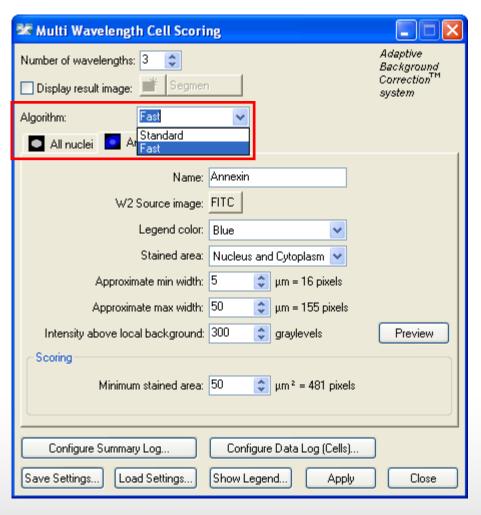


- Number of wavelengths
- This should be set to the total number of wavelengths to be analyzed (nuclei plus probes of interest)
- Up to 7 different wavelengths can be analyzed simultaneously (wavelengths may also be repeated with different settings)





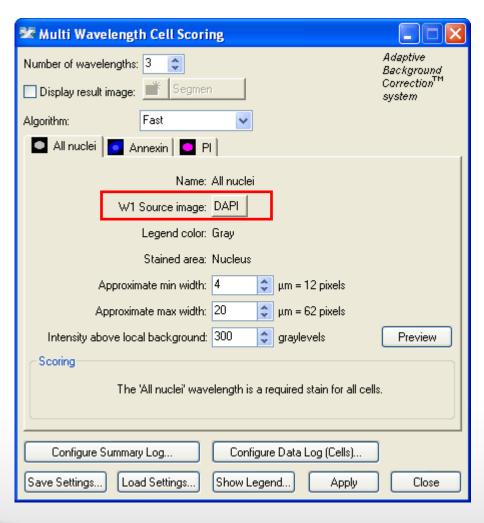
- Display result image
- Leave "Display result image" deselected (this is generally only used when journaling)



Algorithm

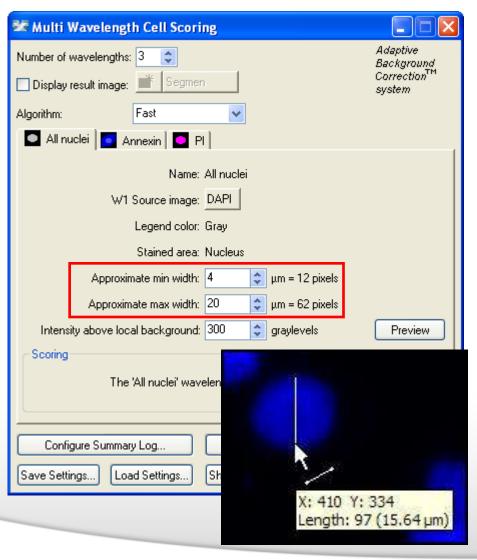
- This option is only available in MetaXpress software version 4.0 and higher and determines how quickly the analysis is performed.
- Fast algorithm can perform analysis up to twice as fast as Standard.
- Both algorithms produce similar but not identical results.





- Wavelength 1 (W1)
- Select the wavelength for the nuclei (required)



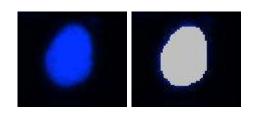


Wavelength 1 (W1)

- Set the Approximate min width and Approximate max width for the range of nuclei that you want to detect
- The width is the short axis of a nucleus (in um)
- The region tools can be used to measure widths
- Much smaller cells will be ignored
- Much larger cells will be split



Effects of varying width settings



Min width too small: splits nuclei



Min width too large: omits smaller nuclei

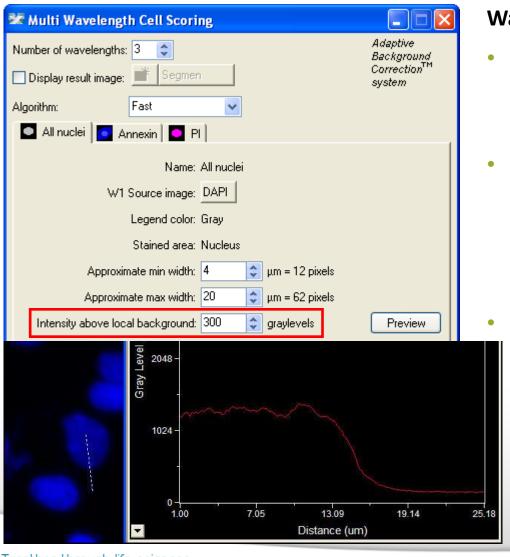
Max width too small: may shrink nuclear boundaries

Max width too large: may slightly enlarge nuclear boundaries





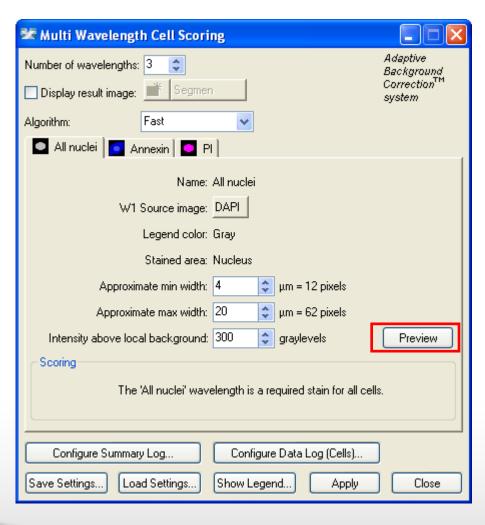




Wavelength 1 (W1)

- The intensity above local background is used for finding the nuclei
- This value is a minimum and should be set slightly lower than the difference in intensity between a dim cell and its local background
 - Draw a line across a cell into the background and use Measure > Linescan to determine intensity values; or simply mouse over the cell and the background and view the intensity values

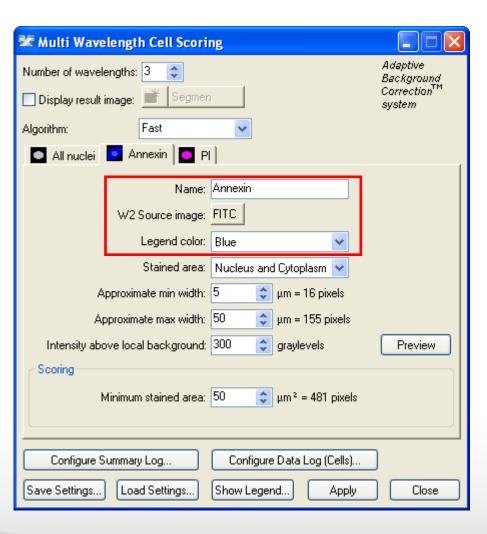




Wavelength 1 (W1)

 Click on **Preview** to test settings for the current wavelength only

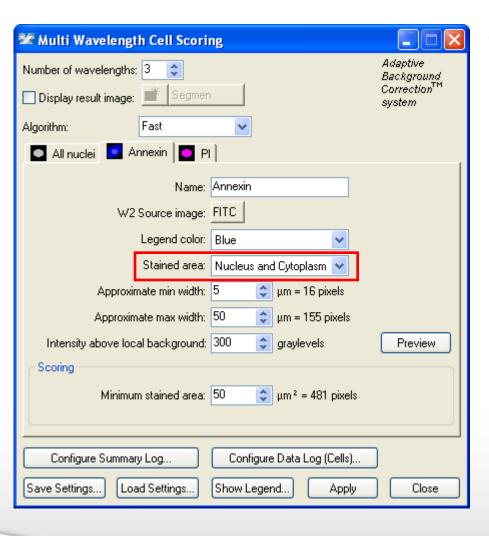




Wavelength 2 (W2)

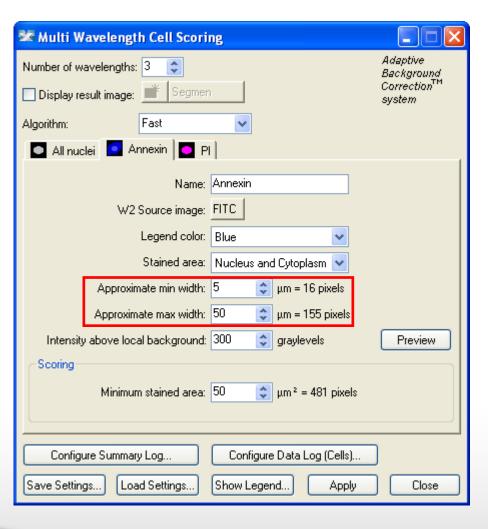
 Enter a name and select wavelength and legend color for your 2nd wavelength (Annexin in this example)





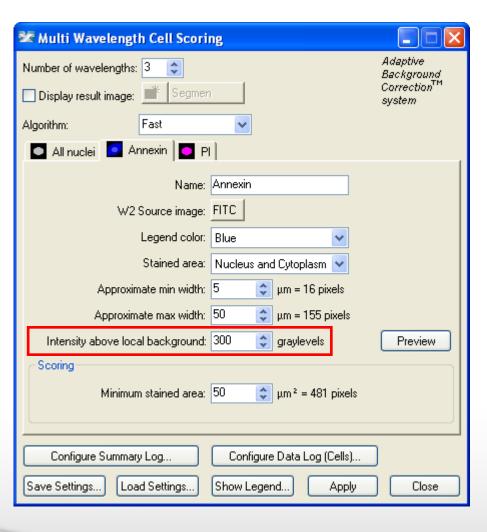
- Define Stained area:
 - Nucleus (stain matches W1 area)
 - Cytoplasm (stain is surrounding but not including W1 area)
 - Nucleus and Cytoplasm (stain encompasses W1 and surrounding area)





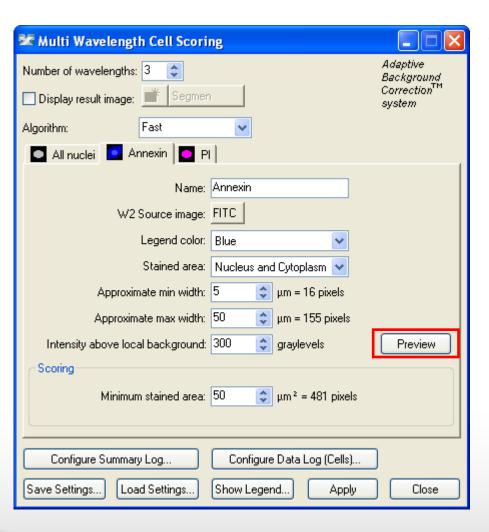
- Set the Approximate min width and Approximate max width for the stain of interest
- For a nuclear stain, use the same settings as W1
- For a cytoplasmic or nuclear + cytoplasmic stain, measure the whole cell the same way you measured the nucleus for W1





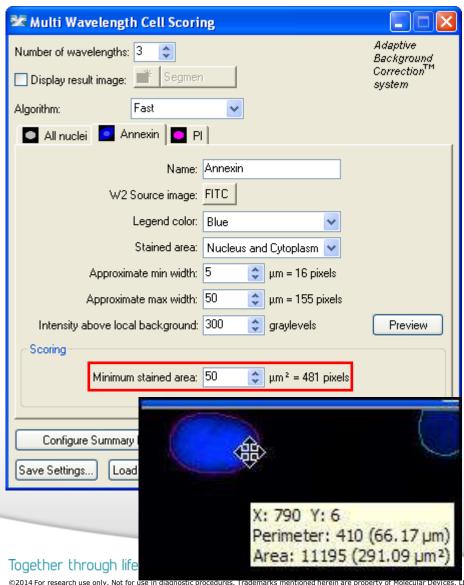
- Intensity above local background for the stain of interest is used to distinguish positive from negative cells
- Measure the stain intensity vs background just as for W1
- Check both positive and negative control images to help set a suitable cutoff





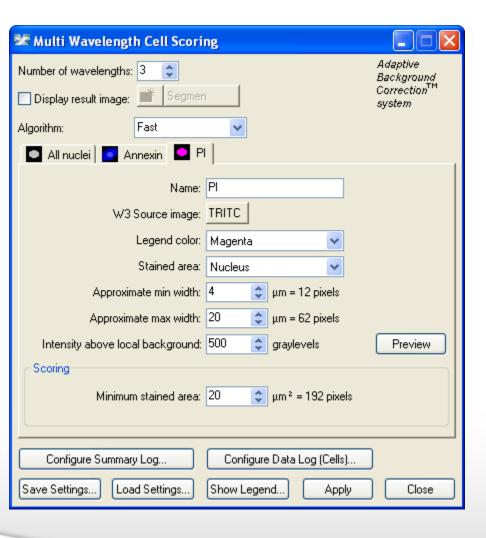
- Click on **Preview** to test settings for the current wavelength only
- Note that this may not accurately segment the cells as this Preview does not use the nuclear staining
- This is most useful for testing the Intensity settings for this wavelength





- Minimum stained area is an additional criteria for separating positive from negative cells
- To be scored as positive, a cell must be stained across this area (or larger)
- This helps eliminate false positives from cells with a small speck of very bright debris
- Use the elliptical region tool to measure the area of a small cell in the image

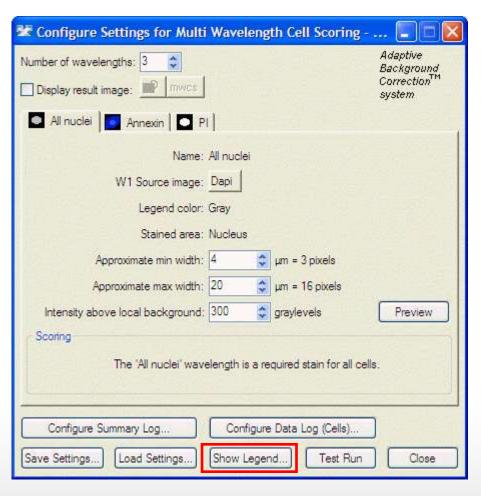




Wavelength 3 (W3) and subsequent wavelengths

 Follow the same steps to configure the settings for wavelength 3 (PI in this example)



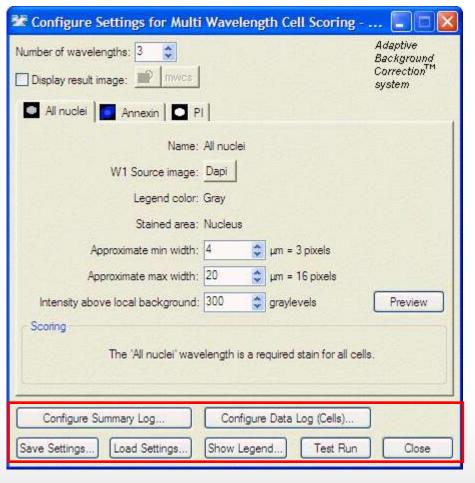


- Show Legend
- Optionally name each profile





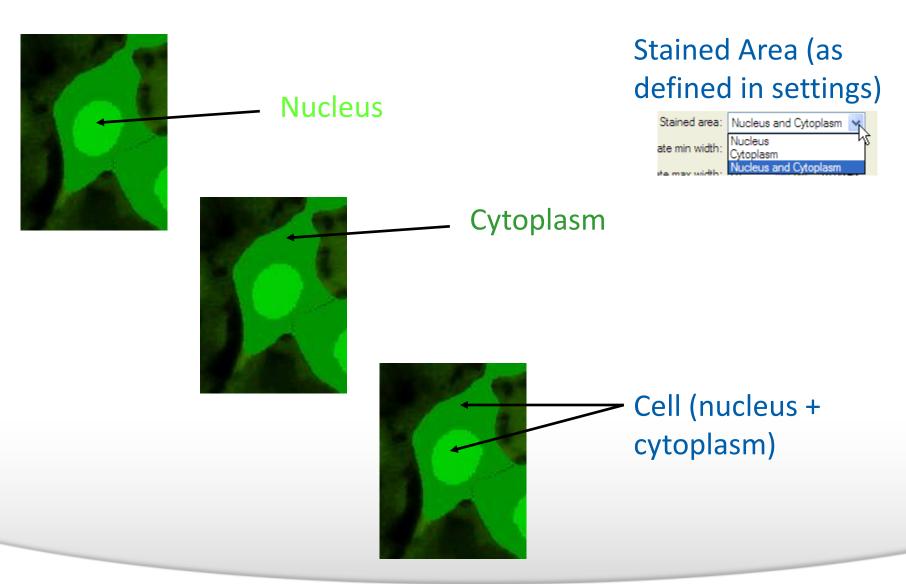
Module Settings – General Settings



- Configure Summary Log select site-by-site measurements
- Configure Data Log select cell-bycell measurements
- Save Settings save analysis parameters to database
- Load Settings load saved analysis parameters
- Set to Defaults restore default analysis parameters
- Test Run test all settings together and display cell-by-cell results for this site



Regions for Measurement





- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
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- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
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- All W3 Mean Cyto Integr Intens
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- Positive W3 Mean Stain Area
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- Negative W3 Mean Cell Integr Intens
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- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- **Total cells:** Total number of nuclei (cell count)
- **All Cells Mean Area:** The average area of the cell (nucleus + cytoplasm) for all cells found in the image (in um²)
- All Nuclei Mean Area: The average area of nucleus for all cells found in the image (in um²)



- Total Cells
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- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
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- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- All Nuclei Mean Integr Intensity: The total pixel intensity of the nuclear stain over the nuclear area, divided by the total number of cells
- All Nuclei Mean Average Intensity:
 The average pixel intensity of the nuclear stain over all the nuclear areas in the image



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
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- All W3 Mean Cyto Integr Intens
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- Scoring Profile 1--
- Scoring Profile 12-
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- Scoring Profile 123
- Percentage Scoring Profile 1--
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- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- **All W2 Mean Stain Area:** The average stained area (nucleus, cytoplasm, or both as defined in the W2 settings) for all cells found in the image (in um²)
- All W2 Mean Stain Integr Intensity: The total pixel intensity of the W2 stain over the stained area, divided by the total number of cells
- All W2 Mean Stain Aver Intensity: The average pixel intensity of the W2 stain over the stained area, over all the cells in the image
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
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- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
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- Positive W2
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- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
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 - Positive W3
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 - Scoring Profile 1--
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 - Scoring Profile 123
 - Percentage Scoring Profile 1--
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 - Percentage Scoring Profile 1-3
 - Percentage Scoring Profile 123
 - Subtotal Profile 1xx
 - Subtotal Profile 12x
 - Subtotal Profile 1x3
 - Subtotal Profile 123
 - Percentage Subtotal Profile 1xx
 - Percentage Subtotal Profile 12x
 - Percentage Subtotal Profile 1x3
 - Percentage Subtotal Profile 123

- All W2 Mean Nucl Integr Intensity: The total pixel intensity of the W2 stain over the nuclear area, divided by the total number of cells
- All W2 Mean Nucl Aver Intensity: The average pixel intensity of the W2 stain over the nuclear area, over all the cells in the image
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
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- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
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- All W3 Mean Cyto Integr Intens
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- All W3 Mean Cell Integr Intens
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- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
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- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- All W2 Mean Cyto Integr Intensity: The total pixel intensity of the W2 stain over the cytoplasmic area, divided by the total number of cells
- All W2 Mean Cyto Aver Intensity: The average pixel intensity of the W2 stain over the cytoplasmic area, over all the cells in the image
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
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- All W3 Mean Stain Area
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- All W3 Mean Cyto Integr Intens
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- Positive W3 Mean Stain Area
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- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- All W2 Mean Cell Integr Intensity: The total pixel intensity of the W2 stain over the cell (nucleus + cytoplasm) area, divided by the total number of cells
- All W2 Mean Cell Aver Intensity: The average pixel intensity of the W2 stain over the cell (nucleus + cytoplasm) area, over all the cells in the image
- (similar for W3-W7)



- Total Cells
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
- Positive W2 Mean Stain Integr Inten-
- Positive W2 Mean Stain Aver Intens
- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
- Negative W2 Mean Stain Integr Inter 🗸
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- Negative W2 Mean Cyto Integr Inten 🗸
- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter logether through life sciences.

- All Cells Mean Area All W3 Mean Cyto Aver Intens
 - All W3 Mean Cell Integr Intens

All W3 Mean Cyto Integr Intens

- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- Positive W2 Mean Stain Area: The average stained area (nucleus, cytoplasm, or both as defined in the W2 settings) for all cells scored as positive for W2 (in um²)
- Positive W2 Mean Stain Integr **Intensity:** The total pixel intensity of the W2 stain over the stained area in W2 positive cells, divided by the number of cells positive for W2
- Positive W2 Mean Stain Aver **Intensity:** The average pixel intensity of the W2 stain over the stained area in W2 positive cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
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- Positive W2 Mean Stain Aver Intens 🐱
- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
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- Negative W2 Mean Stain Area
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- Negative W2 Mean Cyto Integr Inten 🕡
- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Interla-Together through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- Positive W2 Mean Nucl Integr **Intensity:** The total pixel intensity of the W2 stain over the nuclear area in W2 positive cells, divided by the number of cells positive for W2
- Positive W2 Mean Nucl Aver **Intensity:** The average pixel intensity of the W2 stain over the nuclear area in W2 positive cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
- Positive W2 Mean Stain Integr Inten: •
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- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
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- Negative W2 Mean Cyto Integr Inten 🕡
- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter logether through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
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- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- Positive W2 Mean Cyto Integr **Intensity:** The total pixel intensity of the W2 stain over the cytoplasmic area in W2 positive cells, divided by the number of cells positive for W2
- **Positive W2 Mean Cyto Aver Intensity:** The average pixel intensity of the W2 stain over the cytoplasmic area in W2 positive cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
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- Positive W2 Mean Nucl Integr Intens 🗸
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
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- Negative W2 Mean Cyto Integr Inten 🗸
- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter logether through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
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- Positive W3 Mean Nucl Integr Intens
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- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
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- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- Positive W2 Mean Cell Integr **Intensity:** The total pixel intensity of the W2 stain over the cell (nucleus + cytoplasm) area in W2 positive cells, divided by the number of cells positive for W2
- Positive W2 Mean Cell Aver **Intensity:** The average pixel intensity of the W2 stain over the cell (nucleus + cytoplasm) area in W2 positive cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
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- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter logether through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
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- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
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- Positive W3 Mean Nucl Integr Intens
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- Negative W3 Mean Stain Area
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- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Negative W2 Mean Cyto Integr Inten 🕡 Percentage Scoring Profile 1--

 - Percentage Scoring Profile 12-
 - Percentage Scoring Profile 1-3
 - Percentage Scoring Profile 123

 - Subtotal Profile 1xx
 - Subtotal Profile 12x
 - Subtotal Profile 1x3
 - Subtotal Profile 123
 - Percentage Subtotal Profile 1xx
 - Percentage Subtotal Profile 12x
 - Percentage Subtotal Profile 1x3
 - Percentage Subtotal Profile 123

- Negative W2 Mean Stain Area: The average stained area (nucleus, cytoplasm, or both as defined in the W2 settings) for all cells scored as negative for W2 (in um²)
- **Negative W2 Mean Stain Integr Intensity:** The total pixel intensity of the W2 stain over the stained area in W2 negative cells, divided by the number of cells negative for W2
- **Negative W2 Mean Stain Aver Intensity:** The average pixel intensity of the W2 stain over the stained area in W2 negative cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
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- All W2 Mean Cell Integr Intens
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- Negative W2 Mean Cell Integr Intens 🗸
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- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter logether through life sciences.

- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens

All W3 Mean Cyto Integr Intens

- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
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- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- **Negative W2 Mean Nucl Integr Intensity:** The total pixel intensity of the W2 stain over the nuclear area in W2 negative cells, divided by the number of cells negative for W2
- **Negative W2 Mean Nucl Aver Intensity:** The average pixel intensity of the W2 stain over the nuclear area in W2 negative cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
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- Positive W2
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- All W3 Mean Stain Area
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- All W3 Mean Cyto Integr Intens
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- Positive W3 Mean Stain Area
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- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
 - Percentage Subtotal Profile 123

- **Negative W2 Mean Cyto Integr Intensity:** The total pixel intensity of the W2 stain over the cytoplasmic area in W2 negative cells, divided by the number of cells negative for W2
- **Negative W2 Mean Cyto Aver Intensity:** The average pixel intensity of the W2 stain over the cytoplasmic area in W2 negative cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
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- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
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- Negative W2 Mean Nucl Integr Inter 🕡
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- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens
- Negative W2 Mean Cell Aver Intens
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter Together through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- **Negative W2 Mean Cell Integr Intensity:** The total pixel intensity of the W2 stain over the cell (nucleus + cytoplasm) area in W2 negative cells, divided by the number of cells negative for W2
- **Negative W2 Mean Cell Aver Intensity:** The average pixel intensity of the W2 stain over the cell (nucleus + cytoplasm) area in W2 negative cells
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
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- Positive W2 Mean Stain Area
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- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
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- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
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- All W3 Mean Nucl Aver Interla
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- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- **Positive W2:** The total number of cells positive for staining with wavelength 2 as defined in the settings
- % Positive W2: The number of positive W2 cells divided by the total number of cells, times 100
- (similar for W3-W7)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
- Positive W2 Mean Stain Integr Inten-
- Positive W2 Mean Stain Aver Intens
- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
- Negative W2 Mean Stain Integr Inter
- Negative W2 Mean Stain Aver Inten 🗸
- Negative W2 Mean Nucl Integr Inter V Scoring Profile 1-3
- Negative W2 Mean Nucl Aver Intens 🗸 Scoring Profile 123
- Negative W2 Mean Cyto Integr Inten 😺

- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Inter
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- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-

- Percentage Scoring Profile 1--
- Negative W2 Mean Cyto Aver Intens . Percentage Scoring Profile 12-
 - Percentage Scoring Profile 1-3

 - Percentage Scoring Profile 123
 - Subtotal Profile 1xx
 - Subtotal Profile 12x
 - Subtotal Profile 1x3
 - Subtotal Profile 123
 - Percentage Subtotal Profile 1xx
 - Percentage Subtotal Profile 12x
 - Percentage Subtotal Profile 1x3
 - Percentage Subtotal Profile 123

- **Scoring Profile 1--:** The total number of cells positive for W1, negative for W2 and negative for W3
- **Scoring Profile 12-:** The total number of cells positive for W1, positive for W2 and negative for W3
- **Scoring Profile 1-3:** The total number of cells positive for W1, negative for W2 and positive for W3
- **Scoring Profile 123:** The total number of cells positive for W1, W2 and W3
- (similar for additional wavelengths)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integritensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
- Positive W2 Mean Stain Integr Inten: •
- Positive W2 Mean Stain Aver Intens
- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
- Negative W2 Mean Stain Integr Inter 🗸 -
- Negative W2 Mean Stain Aver Inten 🗸
- Negative W2 Mean Nucl Integr Inter . Scoring Profile 1-3
- Negative W2 Mean Nucl Aver Intens 🗸 Scoring Profile 123
- Negative W2 Mean Cyto Integr Inten 🧳
- Negative W2 Mean Cyto Aver Intens <a>Percentage Scoring Profile 12-
- Negative W2 Mean Cell Integr Intens . Percentage Scoring Profile 1-3
- Negative W2 Mean Cell Aver Intens Percentage Scoring Profile 123
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Interce logether through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-

- Percentage Scoring Profile 1--

- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- Percentage Scoring Profile 1--: The number of cells positive for W1, negative for W2 and negative for W3, divided by the total number of cells, times 100
- **Percentage Scoring Profile 12-:** The number of cells positive for W1, positive for W2 and negative for W3, divided by the total number of cells, times 100
- **Percentage Scoring Profile 1-3:** The number of cells positive for W1, negative for W2 and positive for W3, divided by the total number of cells, times 100
- **Percentage Scoring Profile 123:** The number of cells positive for W1, W2 and W3, divided by the total number of cells, times 100
- (similar for additional wavelengths)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
- Positive W2 Mean Stain Integr Inten: •
- Positive W2 Mean Stain Aver Intens 🐱
- Positive W2 Mean Nucl Integr Intens 🗸
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
- Negative W2 Mean Stain Integr Inter 🗸
- Negative W2 Mean Stain Aver Inten 😺
- Negative W2 Mean Nucl Integr Inter 🕡
- Negative W2 Mean Nucl Aver Intens 🗸
- Negative W2 Mean Cyto Integr Inten 🕡
- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- ہے۔ All W3 Mean Nucl Aver Inter logether through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Percentage Scoring Profile 1--
- Percentage Scoring Profile 12-
- Percentage Scoring Profile 1-3
- Percentage Scoring Profile 123
- Subtotal Profile 1xx
- Subtotal Profile 12x
- Subtotal Profile 1x3
- Subtotal Profile 123
- Percentage Subtotal Profile 1xx
- Percentage Subtotal Profile 12x
- Percentage Subtotal Profile 1x3
- Percentage Subtotal Profile 123

- **Subtotal Profile 1xx:** The total number of cells positive for W1, and either positive or negative for W2 and W3
- **Subtotal Profile 12x:** The total number of cells positive for W1 and W2, and either positive or negative for W3
- **Subtotal Profile 1x3:** The total number of cells positive for W1 and W3, and either positive or negative for W2
- **Subtotal Profile 123:** The total number of cells positive for W1, W2 and W3
- (similar for additional wavelengths)



- Total Cells
- All Cells Mean Area
- All Nuclei Mean Area
- All Nuclei Mean Integr Itensity
- All Nuclei Mean Average Itensity
- All W2 Mean Stain Area
- All W2 Mean Stain Integr Intens
- All W2 Mean Stain Aver Intens
- All W2 Mean Nucl Integr Intens
- All W2 Mean Nucl Aver Intens
- All W2 Mean Cyto Integr Intens
- All W2 Mean Cyto Aver Intens
- All W2 Mean Cell Integr Intens
- All W2 Mean Cell Aver Intens
- Positive W2 Mean Stain Area
- Positive W2 Mean Stain Integr Inten-
- Positive W2 Mean Stain Aver Intens
- Positive W2 Mean Nucl Integr Intens
- Positive W2 Mean Nucl Aver Intens
- Positive W2 Mean Cyto Integr Intens 🗸
- Positive W2 Mean Cyto Aver Intens
- Positive W2 Mean Cell Integr Intens
- Positive W2 Mean Cell Aver Intens
- Negative W2 Mean Stain Area
- Negative W2 Mean Stain Integr Inter 🗸
- Negative W2 Mean Stain Aver Inten 😺
- Negative W2 Mean Nucl Integr Inter 🕡
- Negative W2 Mean Nucl Aver Intens 🔳
- Negative W2 Mean Cyto Aver Intens 🗸
- Negative W2 Mean Cell Integr Intens 🗸
- Negative W2 Mean Cell Aver Intens 😺
- Positive W2
- % Positive W2
- All W3 Mean Stain Area
- All W3 Mean Stain Integr Intens
- All W3 Mean Stain Aver Intens
- All W3 Mean Nucl Integr Intens
- All W3 Mean Nucl Aver Interce logether through life sciences.

- All W3 Mean Cyto Integr Intens
- All W3 Mean Cyto Aver Intens
- All W3 Mean Cell Integr Intens
- All W3 Mean Cell Aver Intens
- Positive W3 Mean Stain Area
- Positive W3 Mean Stain Integr Intens
- Positive W3 Mean Stain Aver Intens
- Positive W3 Mean Nucl Integr Intens
- Positive W3 Mean Nucl Aver Intens
- Positive W3 Mean Cyto Integr Intens
- Positive W3 Mean Cyto Aver Intens
- Positive W3 Mean Cell Integr Intens
- Positive W3 Mean Cell Aver Intens
- Negative W3 Mean Stain Area
- Negative W3 Mean Stain Integr Intens
- Negative W3 Mean Stain Aver Intens
- Negative W3 Mean Nucl Integr Intens
- Negative W3 Mean Nucl Aver Intens
- Negative W3 Mean Cyto Integr Intens
- Negative W3 Mean Cyto Aver Intens
- Negative W3 Mean Cell Integr Intens
- Negative W3 Mean Cell Aver Intens
- Positive W3
- % Positive W3
- Scoring Profile 1--
- Scoring Profile 12-
- Scoring Profile 1-3
- Scoring Profile 123
- Negative W2 Mean Cyto Integr Inten 🕡 Percentage Scoring Profile 1--
 - Percentage Scoring Profile 12-

 - Percentage Scoring Profile 1-3
 - Percentage Scoring Profile 123
 - Subtotal Profile 1xx
 - Subtotal Profile 12x
 - Subtotal Profile 1x3
 - Subtotal Profile 123
 - Percentage Subtotal Profile 1xx
 - Percentage Subtotal Profile 12x
 - Percentage Subtotal Profile 1x3
 - Percentage Subtotal Profile 123

- **Percentage Subtotal Profile 1xx:** The number of cells positive for W1, and either positive or negative for W2 and W3, divided by the total number of cells, times 100
- Percentage Subtotal Profile 12x: The number of cells positive for W1 and W2, and either positive or negative for W3, divided by the total number of cells, times 100
- Percentage Subtotal Profile 1x3: The number of cells positive for W1 and W3, and either positive or negative for W2, divided by the total number of cells, times 100
- **Percentage Subtotal Profile 123:** The number of cells positive for W1, W2 and W3, divided by the total number of cells, times 100
- (similar for additional wavelengths)



- Cell: Assigned Label #
- Cell: Scoring Profile
- Cell: Custom Profile Name
- Cell: Total Area
- W1 Stained Area
- W1 Integrated Intensity
- W1 Average Intensity
- Cell: Positive W2
- Cell: W2 Stained Area
- Cell: W2 Stained Integr Intensity
- Cell: W2 Stained Average Intensity
- Cell: W2 Nucleus Integr Intensity
- Cell: W2 Nucleus Average Intensity
- Cell: W2 Cytoplasm Integr Intensity
- Cell: W2 Cytoplasm Average Intensity
- Cell: W2 Cell Integr Intensity
- Cell: W2 Cell Average Intensity
- Cell: Positive W3
- Cell: W3 Stained Area
- Cell: W3 Stained Integr Intensity
- Cell: W3 Stained Average Intensity
- Cell: W3 Nucleus Integr Intensity
- Cell: W3 Nucleus Average Intensity
- Cell: W3 Cytoplasm Integr Intensity
- Cell: W3 Cytoplasm Average Intensity
- Cell: W3 Cell Integr Intensity
- Cell: W3 Cell Average Intensity

- Cell: Assigned Label # Cell label number (1 through total cell number)
- Cell: Scoring Profile The profile for this cell, i.e. "1—" or "12-" or "1-3" or "123"
- Cell: Custom Profile Name The user-defined profile for this cell, as specified in the legend (e.g. "A positive", "Double positive")



- Cell: Assigned Label #
- Cell: Scoring Profile
- Cell: Custom Profile Name
- Cell: Total Area
- W1 Stained Area
- W1 Integrated Intensity
- W1 Average Intensity
- Cell: Positive W2
- Cell: W2 Stained Area
- Cell: W2 Stained Integr Intensity
- Cell: W2 Stained Average Intensity
- Cell: W2 Nucleus Integr Intensity
- Cell: W2 Nucleus Average Intensity
- Cell: W2 Cytoplasm Integr Intensity
- Cell: W2 Cytoplasm Average Intensity
- Cell: W2 Cell Integr Intensity
- Cell: W2 Cell Average Intensity
- Cell: Positive W3
- Cell: W3 Stained Area
- Cell: W3 Stained Integr Intensity
- Cell: W3 Stained Average Intensity
- Cell: W3 Nucleus Integr Intensity
- Cell: W3 Nucleus Average Intensity
- Cell: W3 Cytoplasm Integr Intensity
- Cell: W3 Cytoplasm Average Intensity
- Cell: W3 Cell Integr Intensity
- Cell: W3 Cell Average Intensity

- Cell: Total Area Total square microns of the cell (nucleus + cytoplasm as defined by the combination of all wavelengths)
- W1 Stained Area Total square microns of the nucleus as defined by the W1 stain
- W1 Integrated Intensity Total pixel intensity of the nuclear stain in the nucleus
- W1 Average Intensity Average pixel intensity of the nuclear stain in the nucleus



- Cell: Assigned Label #
- Cell: Scoring Profile
- Cell: Custom Profile Name
- Cell: Total Area
- W1 Stained Area
- W1 Integrated Intensity
- W1 Average Intensity
- Cell: Positive W2
- Cell: W2 Stained Area
- Cell: W2 Stained Integr Intensity
- Cell: W2 Stained Average Intensity
- Cell: W2 Nucleus Integr Intensity
- Cell: W2 Nucleus Average Intensity
- Cell: W2 Cytoplasm Integr Intensity
- Cell: W2 Cytoplasm Average Intensity
- Cell: W2 Cell Integr Intensity
- Cell: W2 Cell Average Intensity
- Cell: Positive W3
- Cell: W3 Stained Area
- Cell: W3 Stained Integr Intensity
- Cell: W3 Stained Average Intensity
- Cell: W3 Nucleus Integr Intensity
- Cell: W3 Nucleus Average Intensity
- Cell: W3 Cytoplasm Integr Intensity
- Cell: W3 Cytoplasm Average Intensity
- Cell: W3 Cell Integr Intensity
- Cell: W3 Cell Average Intensity

- Cell: Positive W2 Classification of the cell as positive for staining in wavelength 2 (value of 1) or negative for staining in wavelength 2 (value of 0)
- Cell: W2 Stained Area Total square microns of the area stained by W2 as defined in the settings (nucleus, cytoplasm, or nucleus + cytoplasm)
- Cell: W2 Stained Integr Intensity Total pixel intensity of the W2 stain in the defined area
- Cell: W2 Stained Average Intensity
 Average pixel intensity of the W2 stain in the defined area
- (similar for W3-W7)



- Cell: Assigned Label #
- Cell: Scoring Profile
- Cell: Custom Profile Name
- Cell: Total Area
- W1 Stained Area
- W1 Integrated Intensity
- W1 Average Intensity
- Cell: Positive W2
- Cell: W2 Stained Area
- Cell: W2 Stained Integr Intensity
- Cell: W2 Stained Average Intensity
- Cell: W2 Nucleus Integr Intensity
- Cell: W2 Nucleus Average Intensity
- Cell: W2 Cytoplasm Integr Intensity
- Cell: W2 Cytoplasm Average Intensity
- Cell: W2 Cell Integr Intensity
- Cell: W2 Cell Average Intensity
- Cell: Positive W3
- Cell: W3 Stained Area
- Cell: W3 Stained Integr Intensity
- Cell: W3 Stained Average Intensity
- Cell: W3 Nucleus Integr Intensity
- Cell: W3 Nucleus Average Intensity
- Cell: W3 Cytoplasm Integr Intensity
- Cell: W3 Cytoplasm Average Intensity
- Cell: W3 Cell Integr Intensity
- Cell: W3 Cell Average Intensity

- Cell: W2 Nucleus Integr Intensity —
 Total pixel intensity of the W2 stain in the nucleus
- Cell: W2 Nucleus Average Intensity
 - Average pixel intensity of the W2
 stain in the nucleus
- (similar for W3-W7)



- Cell: Assigned Label #
- Cell: Scoring Profile
- Cell: Custom Profile Name
- Cell: Total Area
- W1 Stained Area
- W1 Integrated Intensity
- W1 Average Intensity
- Cell: Positive W2
- Cell: W2 Stained Area
- Cell: W2 Stained Integr Intensity
- Cell: W2 Stained Average Intensity
- Cell: W2 Nucleus Integr Intensity
- Cell: W2 Nucleus Average Intensity
- Cell: W2 Cytoplasm Integr Intensity
- Cell: W2 Cytoplasm Average Intensity
- Cell: W2 Cell Integr Intensity
- Cell: W2 Cell Average Intensity
- Cell: Positive W3
- Cell: W3 Stained Area
- Cell: W3 Stained Integr Intensity
- Cell: W3 Stained Average Intensity
- Cell: W3 Nucleus Integr Intensity
- Cell: W3 Nucleus Average Intensity
- Cell: W3 Cytoplasm Integr Intensity
- Cell: W3 Cytoplasm Average Intensity
- Cell: W3 Cell Integr Intensity
- Cell: W3 Cell Average Intensity

- Cell: W2 Cytoplasm Integr
 Intensity Total pixel intensity of the W2 stain in the cytoplasm
- Cell: W2 Cytoplasm Average
 Intensity Average pixel intensity
 of the W2 stain in the cytoplasm
- (similar for W3-W7)



- Cell: Assigned Label #
- Cell: Scoring Profile
- Cell: Custom Profile Name
- Cell: Total Area
- W1 Stained Area
- W1 Integrated Intensity
- W1 Average Intensity
- Cell: Positive W2.
- Cell: W2 Stained Area
- Cell: W2 Stained Integr Intensity
- Cell: W2 Stained Average Intensity
- Cell: W2 Nucleus Integr Intensity
- Cell: W2 Nucleus Average Intensity
- Cell: W2 Cytoplasm Integr Intensity
- Cell: W2 Cytoplasm Average Intensity
- Cell: W2 Cell Integr Intensity
- Cell: W2 Cell Average Intensity
- Cell: Positive W3
- Cell: W3 Stained Area
- Cell: W3 Stained Integr Intensity
- Cell: W3 Stained Average Intensity
- Cell: W3 Nucleus Integr Intensity
- Cell: W3 Nucleus Average Intensity
- Cell: W3 Cytoplasm Integr Intensity
- Cell: W3 Cytoplasm Average Intensity
- Cell: W3 Cell Integr Intensity
- Cell: W3 Cell Average Intensity

- Cell: W2 Cell Integr Intensity –
 Total pixel intensity of the W2 stain in the cell (nucleus + cytoplasm)
- Cell: W2 Cell Average Intensity –
 Average pixel intensity of the W2 stain in the cell (nucleus + cytoplasm)
- (similar for W3-W7)





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