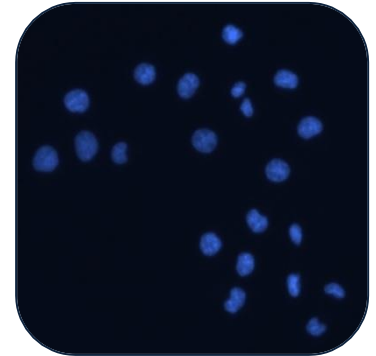


Nuclei Count

General Purpose

The Nuclei Count image analysis can be used to count fluorescent spots e.g. cell nuclei in your cell sample. It is only one fluorescence channel required but you can add e.g. a brightfield channel to have an overview of the cell condition. This operator is useful to determine the number of e.g. adherent cells if they are difficult to count in brightfield.



Short Note
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Result Table

• Evaluated Area [mm²]	Total evaluated area per well	
• Nuclei Count [#]	Number of recognized cell nuclei	
• Sum of Nuclei Sizes [μm²]	Total area of all recognized cell nuclei	
• Sum of the Nuclei Fluorescence Intensities BC	Sum of all nuclei fluorescence intensities over background	
• Sample ID	Name of the sample	} Chosen in the layout dialog on the setup page
• Concentration [μg/mL]	Concentration e.g. of a supplement	
• Dilution	Dilution factor	
• Volume per Well [μL]	Sample volume per well	
• Avg Nucleus Size [μm²]	Average Size of a cell nucleus	
• Avg Nucleus Fluorescence Intensity BC	Average fluorescence intensity of a cell nucleus over background level	
• Process Duration [ms]	Duration of image analysis	
• Processed Area [%]	Percentage ratio of Evaluated Area on entire well area	

Example

This example shows adherent CHO-K1 cells stained with Hoechst 33342 (a') and analyzed with the Nuclei Count image analysis (a). B shows the possibility to add an brightfield channel (not mandatory) to see the cell structures with (b) and without (b') image analysis.

