SYNENTEC

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 fluorecence 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.
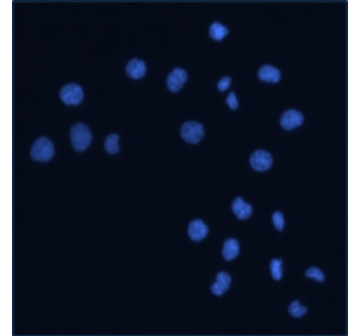
RESULT TABLE

Nuclei Count	Number of recognized cell nuclei
Sum of Nuclei Sizes	Total area of all recognized cell nuclei in μm^2
Sum of the Nuclei Fluorescence Intensities BC	Sum of all nuclei fluorescence intensities over background
Avg Nucleus Size	Average size of a cell nucleus in μm^2
Avg Nucleus Fluorescence Intensity BC	Average fluorescence intensity of a cell nucleus over background level

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.