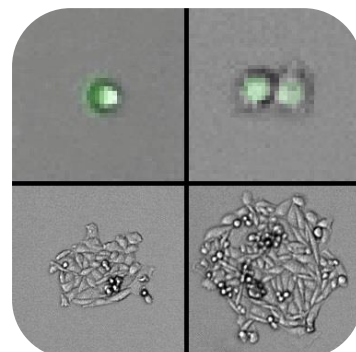


## FASCC - Fluorescence Activated Single Cell Cloning

### Your Advantage

FDA requires more and more the image based proof of the monoclonality of your cell line. Methods have been established by using non-toxic fluorescent dyes, e.g. CellTracker® or Calcein-AM, to identify your potential clone from day one of seeding, to expedite the throughput by omitting subsequent colony monitoring. It has been shown that a resolution of 2µm or worse (i.e. 4x magnification) might not separate two adjacent cells (doublets). Therefore a higher resolution is required, which takes a much longer scanning time for your sample carrier.

With SynenTec's NanoView in FASCC we combine high resolution imaging with fast pre-scanning to resolve your potential clones for an unambiguous documentation of your monoclonality without compromising throughput.



Short Note  
SN-B123-XV-02

### Read-Out Data Pre-Scan

**Total Number of Cells**

*Total Number of cells found **in a well** (which is set as a filter selection for NanoView)*

**Total Number of Cells in Fluo Cluster**

*Number of cells resolved in a cluster using fluorescence signal*

### Read-Out Data NanoView-Scan

**Total Number of Cells**

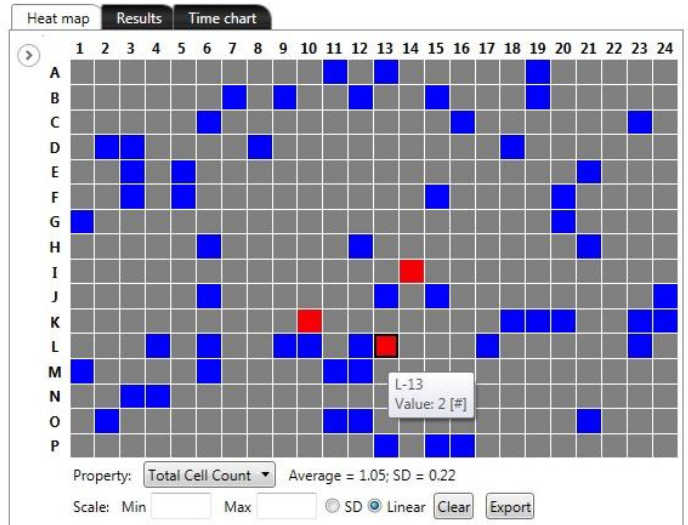
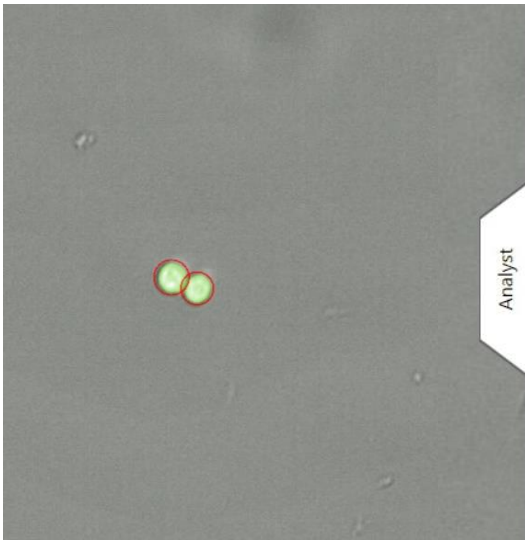
*Total Number of cells found **in a well for a potential single clone***

**Total Number of Cells Cluster Fluo**

*Number of cells resolved in a cluster using fluorescence signal*

**Total Number of Cells in Cluster BF**

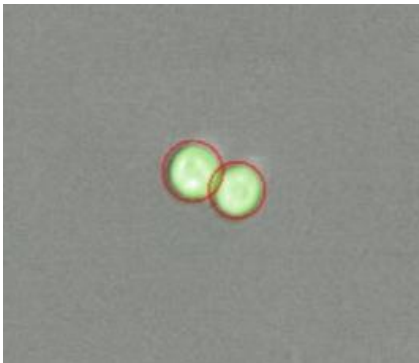
*Number of cells resolved in a cluster using brightfield signal*



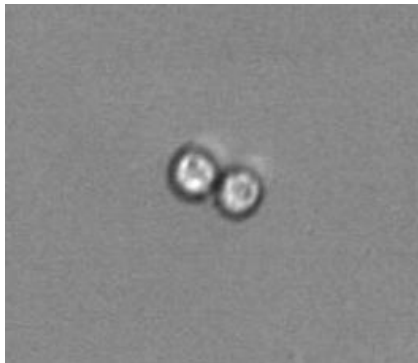
NanoView total cell count result overview

## Examples of Doublet Identification and Monoclonality

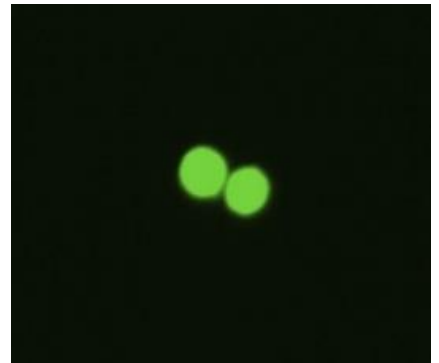
This example shows two cases where the NanoView mode resolved the doublets by using fluorescence and brightfield images.



Overlay image with the brightfield and fluorescence channel and detection



brightfield channel



fluorescence channel

