

Assay Name: Endpoint apoptosis assay using Caspase 3/7 with Hoechst

Assay ID: Celigo_02_0003

Description: Detect and quantify the number of Caspase 3/7 positive cells in an apoptosis assay

Stains: Caspase 3/7 (Green) for detection of apoptotic cells; Hoechst (Blue) for detection of cell nuclei

Imaging channels: Bright field, Green, Blue

Image analysis algorithm: Celigo software Target 1 + 2 + Mask

Methods:

1. Seed MDA-MB-231 cells in a 96-well plate
2. Treat with selected drugs or vehicle control
3. Stain the cells with Caspase 3/7 and Hoechst and incubate for 30 minutes at 37°C (Nexcelom, Cat# CSK-V0003-1)
4. Image entire 96-well plate (whole well imaging) in ~15 minutes
5. Analyze apoptosis data using Celigo gating interface ~ 20 minutes

Results:

Apoptosis assay using MDA-MB-231 cells with Staurosporine-treated positive control

MDA-MB-231 Adherent:

