abcam

Product datasheet

Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) ab176748

1 References　画像数 2

製品の概要

製品名	Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm)
検出方法	Fluorescent
サンプルの種類	Suspension cells
アッセイタイプ	Cell-based (quantitative)
種交差性	**交差種:** Mammals, Other species
製品の概要	Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176748) uses a proprietary cell viability dye whose fluorescence is strongly enhanced upon entering into live cells. The dye is a hydrophobic compound that easily permeates intact live cells. The weakly fluorescent CytoCalcein Violet 450, AM is hydrolyzed by intracellular esterase to generate a strongly fluorescent hydrophilic product that is well-retained in the cell cytoplasm. The esterase activity is proportional to the number of viable cells, and thus directly related to the fluorescence intensity of the product generated from the esterase-catalyzed hydrolysis of the fluorogenic substrate. Cells grown in black wall/clear bottom plates can be stained and quantified in less than two hours. The assay is more robust than tetrazolium salt or Alamar Blue® based ones. It can be readily adapted for many different types of fluorescence platforms such as microplate assays, fluorescence microscope, and flow cytometry.
特記事項	Review the **cell health assay guide** to learn about more kits to perform a **cell viability assay**, **cytotoxicity assay** and **cell proliferation assay**.
試験プラットフォーム	Microplate reader, Fluor. microscope, Flow cyt.

製品の特性

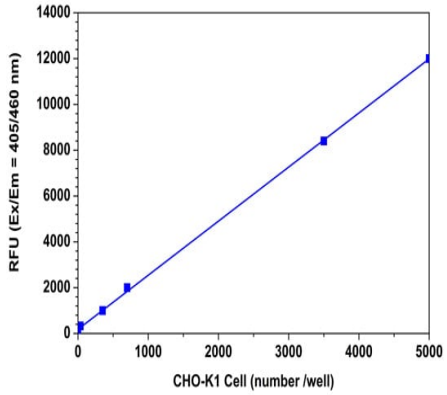
保存方法	Store at -20°C. Please refer to protocols.

内容	500 tests
Assay Buffer	1 x 50ml
CytoCalcein Violet 450, AM	5 vials
DMSO	1 x 200µl

関連性

Cell viability is a determination of living or dead cells, based on a total cell population. Cell viability assess healthy cells in a sample, with no distinction between dividing or quiescent cells. An increase in cell viability indicates cell growth, while a decrease in viability can generally be interpreted as the result of either toxic effects of compounds/agents or suboptimal culture conditions.

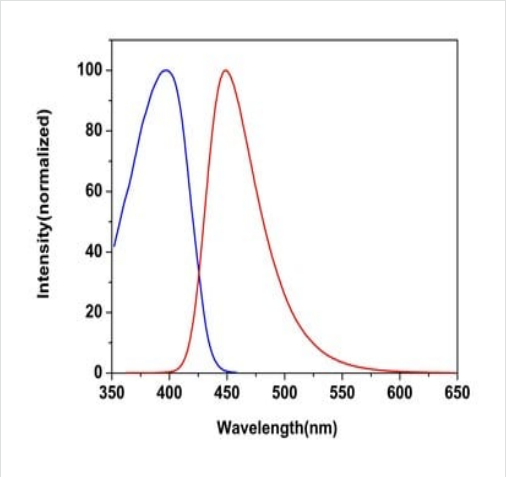
画像



CHO-K1 cell number measured with Cell Viability Assay Kit (Flurometric-Blue Ex 405nm)

CHO-K1 cell number response was measured with Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176748). CHO-K1 cells were seeded overnight at 0 - 5,000 cells/well/100 µL in a black wall/clear bottom 96-well plate. The cells were incubated with 100 µL/well of CytoCalcein Violet 450 dye-loading solution for 1 hour at room temperature. The fluorescence intensity was measured at Ex/Em = 405/460 nm. The fluorescence intensity was linear (R2 = 1) to the cell number as indicated.

The detection limit was 70 cells/well (n=6).



Excitation and Emission Spectra for Cell Viability Assay Kit (Fluorometric - Blue Ex 405 nm) (ab176748)

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