

Datasheet for ABIN1607918

CellCountEZ™ Cell Survival Assay Kit

6 Images

1 Publication

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Overview

Quantity: 1 kit

Application: Cell Viability Assay (CVA)

Product Details

Brand: CellCountEZ™

Target Details

Background: CellCountEZ™ Cell Survival Assay Kit is a tissue culture media-based assay that can measure metabolically active live cells and quantify cell death caused by radiation, chemotherapeutics or toxins. CellCountEZ™ is based on the ability of mammalian cells to rapidly and efficiently convert hydroxyethyl disulfide (HEDS) into mercaptoethanol (ME) through a bioreduction mechanism. Bioconversion of HEDS to ME relies on the activity of the oxidative pentose phosphate cycle (OPPC). CellCountEZ™ measures ME in the extracellular medium without the need for cellular lysis and extraction methods, this preserves the ability to perform other cellular tests in the same culture system. CellCountEZ™ is readily soluble, membrane permeable and converted by live cells intracellularly before transport into the extracellular culture media. CellCountEZ™ offers many advantages that make it superior to common existing methods for quantifying cell growth and survival. Synonyms: Toxicity, Proliferation, and Survival Assay, cell proliferation and survival, drug screening, cell viability, cell survival, cellular viability, cellular survival, HEDS assay.

Application Details

Application Notes: CellCountEZ™ Cell Survival Assay Kit contains enough reagents for 1000 assays using a 96-well plate. This assay gives a linear response for cells (0, 1.000, 5.000, 10.000, 20.000, 40.000)

Application Details

plated in 100 μ l growth medium with up to 15% fetal bovine serum in a 96-well plate and measured 20 hours after plating. Drug toxicity could be measured for up to 4 days after treatment with drugs using this assay for 5,000 cells plated in 100 μ l growth medium with up to 15% fetal bovine serum in a 96-well plate.

Restrictions: For Research Use only

Handling

Storage: 4 °C

Storage Comment: Store kit at 2-8° C prior to opening. See kit insert for complete instructions.

Expiry Date: See kit insert for complete instructions.

Publications

Product cited in: Huang, Peng, Furuuchi, DuHadaway, Jimbo, Pirritano, Dunton, Daum, Leiby, Brody, Sawicki: "Insights from HuR biology point to potential improvement for second-line ovarian cancer therapy." in: **Oncotarget**, Vol. 7, Issue 16, pp. 21812-24, (2017) ([PubMed](#)).

Images

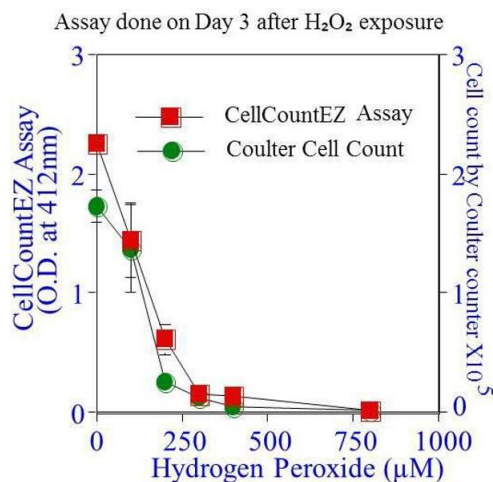


Image 1. CellCountEZ™ Assay after 3 days of treatment with 0-1000 μ M of hydrogen peroxide on human colon cancer cells HCT116 in a 96 well plate. Drug toxicity could be measured for up to 4 days after treatment with drugs using this assay.

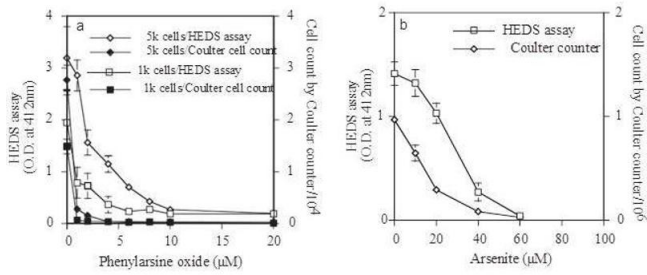


Image 2. CellCountEZ™ Cell Survival Assay Kit is a tissue culture media-based assay that can measure metabolically active live cells and quantify cell death caused by radiation, chemotherapeutics or toxins. HEDS assay after 0-20 µM Phenylarsine oxide treatment or 0-60µM Arsenite treatment to human colon cancer cells. is based on the ability of mammalian cells to rapidly and efficiently convert hydroxyethyl disulfide (HEDS) into mercaptoethanol (ME) through a bio-reduction mechanism.

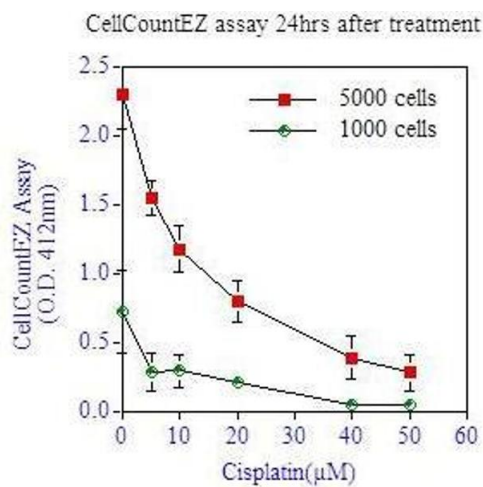


Image 3. CellCountEZ™ Cell Survival Assay Kit is a tissue culture media-based assay that can measure metabolically active live cells and quantify cell death caused by radiation, chemotherapeutics or toxins. Assay after 24 hours treatment with 0-50 µM of Cisplatin on human colon cancer cells HCT116 in a 96 well plate.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN1607918.