abcam

Product datasheet

Cell Migration/Chemotaxis Assay Kit (96-well, 8 µm) ab235673

2 Images

Overview

Product name	Cell Migration/Chemotaxis Assay Kit (96-well, 8 µm)
Detection method	Fluorescent
Sample type	Adherent cells, Suspension cells
Species reactivity	**Reacts with:** Mouse, Human
Product overview	Cell Migration/Chemotaxis Assay Kit (96-well, 8 µm) (ab235673) measures cell migration in response to stimuli in adherent and suspension cells. It allows you to screen, study, or characterize compounds that influence chemotaxis/cell migration. It utilizes a Boyden chamber, where the cells migrate through a semi-permeable membrane under different stimuli. Cell migration can be analyzed directly by reading fluorescence (Ex/Em = 530/590 nm) in a plate reader. Our assay is easy to use, sensitive and adaptable to high-throughput systems.
Notes	Cell invasion is the ability of cells to migrate from one area to another through an extracellular matrix. Cell invasion is exhibited by both normal cells as well as cancerous cells in response to specific external signals, including chemical and mechanical stimuli. During invasion, extracellular matrix is enzymatically degraded by cellular proteases before cells migrate to the new location. Cell invasion is required for normal processes such as wound repair, vasculature formation and the inflammatory response as well as the abnormal invasion of tissues by tumor cells during metastasis.
Platform	Microplate reader

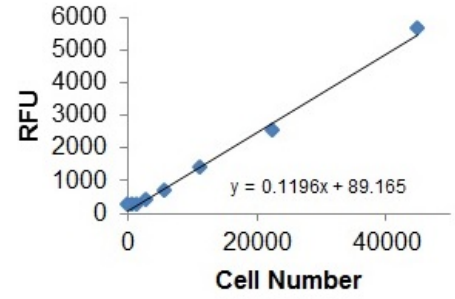
Properties

Storage instructions	Store at -20°C. Please refer to protocols.

Components	**100 tests**
Cell Dissociation Solution	1 x 10ml
Cell Dye	1 x 1.5ml
Cell Migration Chamber	1 unit
Control Migration Inducer	1 x 300µl

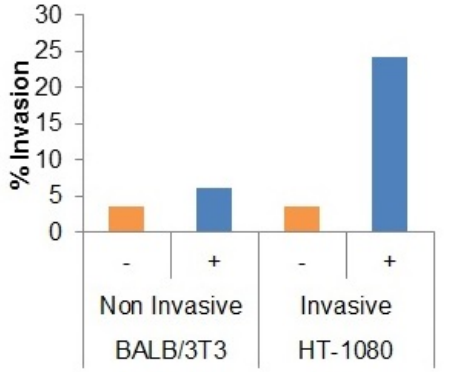
Components	100 tests
Wash Buffer	1 x 50ml

Images



Standard Curve.

HT-1080 cells were harvested, counted and serially diluted to obtain desired cell number. Cells were incubated according to the protocol.



Cell Invasion.

3T3-NIH and HT-1080 cells were starved overnight and treated with Control (Cnt) Invasion Inducer or remain untreated (No Treatment). Treatment with Control Invasion Inducer demonstrated a significant increase in invasion of HT 1080 cells as compare to 3T3-NIH control cells.

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