

CytoSelect 24-well Cell Migration Assay (8 μ m), Fluorometric Assay Kit

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CATALOG #
AAA44547

PRODUCT SYNONYMS

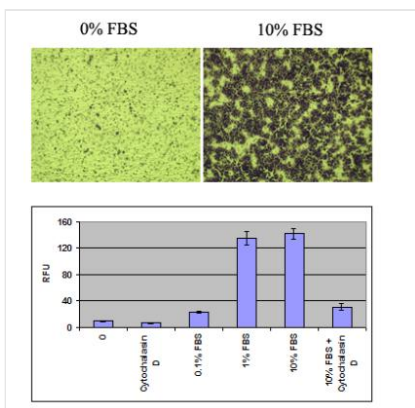
CytoSelect 24-well Cell Migration Assay (8 μ m); Fluorometric; Fluorometric assay kit

PRODUCT SPECIFICATIONS

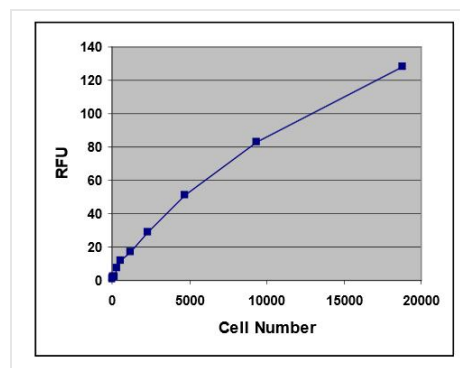
Preparation and Storage

Store all components at 4 degree C until their expiration dates.

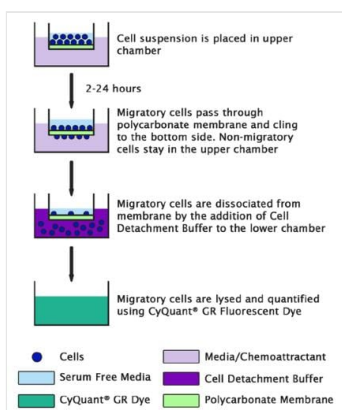
IMAGES



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CytoSelect 24-well Cell Migration Assay (8 µm), Fluorometric assay kit	Background: Cell migration is a highly integrated, multistep process that orchestrates embryonic morphogenesis, tissue repair and regeneration. It plays a pivotal role in the disease progression of cancer, mental retardation, atherosclerosis, and arthritis. The initial response of a cell to a migration-promoting agent is to polarize and extend protrusions in the direction of the attractant; these protrusions can consist of large, broad lamellipodia or spike-like filopodia. In either case, these protrusions are driven by actin polymerization and can be stabilized by extracellular matrix (ECM) adhesion or cell-cell interactions (via transmembrane receptors). CytoSelect Cell Migration Assay Kit utilizes polycarbonate membrane inserts (8 µm pore size) to assay the migratory properties of cells. The kit does not require you to prelabel the cells with Calcein AM or remove non-migratory cells (i.e. cotton swabbing). Any migratory cells are first dissociated from the membrane, then lysed and detected by the patented CyQuant GR Dye (Invitrogen). CytoSelect Cell Migration Assay Kit provides a robust system for the quantitative determination of cell migration. The kit contains sufficient reagents for the evaluation of 12 samples. The 8 µm pore size is optimal for epithelial and fibroblast cell migration. However, in the case of leukocyte chemotaxis, a smaller pore size (3 µm) is recommended. The CytoSelect Cell Migration Assay Kit contains polycarbonate membrane inserts (8 µm pore size) in a 24-well plate. The membrane serves as a barrier to discriminate migratory cells from non-migratory cells. Migratory cells are able to extend protrusions towards chemoattractants (via actin cytoskeleton reorganization) and ultimately pass through the pores of the polycarbonate membrane. These migratory cells are then dissociated from the membrane and subsequently detected by the patented CyQuant GR Dye (Invitrogen).
Product Categories/Family for CytoSelect 24-well Cell Migration Assay (8 µm), Fluorometric assay kit	Cell Based Assays; Cell Migration; Invasion and Wound Healing; Boyden Chamber Assays; Chemotaxis Assays
References	1. Ridley AJ, Schwartz MA, Burridge K, Firtel RA, Ginsberg MH, Borisy G, Parsons JT, Horwitz AR. (2003) Science 302:1704-9. 2. Horwitz R, Webb D. (2003) Curr Biol. 13:R756-9. 3. Lauffenburger DA, Horwitz AF. (1996) Cell 84:359-369. 1. Izhak, L. et al. (2010). Predominant expression of CCL2 at the tumor site of prostate cancer patients directs a selective loss of immunological tolerance to CCL2 that could be amplified in a beneficial manner. J. Immunol. 184:1092-1101. 2. Wang, W. et al. (2009). Netrin-1 increases proliferation and migration of renal proximal tubular epithelial cells via the UNC5B receptor. Am. J. Physiol. Renal Physiol. 296:F723-729. 3. Izhak, L. et al. (2009). A novel recombinant fusion protein encoding a 20-amino acid residue of the third extracellular (E3) domain of CCR2 neutralizes the biological activity of CCL2. J. Immunol. 183:732-739. 4. Zhao, L. et al. (2008). CD44 expressed on both bone marrow-derived and non-bone marrow-derived cells promotes atherogenesis in ApoE-deficient mice. Arterioscler. Thromb. Vasc. Biol. 28:1283-1289. 5. Fava, G. et al. (2008). Leptin enhances cholangiocarcinoma cell growth. Cancer Res. 68:6752-6761. 6. Uddin, M. et al. (2008). Marinobufagenin inhibits proliferation and migration of cytotrophoblast and CHO cells. Placenta 29(3):266-273. 7. Reing, J. et al. (2008). Degradation products of extracellular matrix affect cell migration and proliferation. Tissue Eng. Part A 10.1089/ten.tea.2007.0425.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/assay-kits/cytoselect-24-well-cell-migration-assay-8-um-fluorometric/44547>