

CytoSelect 24-well Cell Migration Assay (3 μ m), Fluorometric Assay Kit

CytoSelect 24-well Cell Migration Assay (3 μ m), Fluorometric

CATALOG #
AAA44529

PRODUCT SYNONYMS

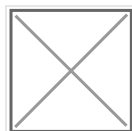
CytoSelect 24-well Cell Migration Assay (3 μ m); Fluorometric; Fluorometric assay kit

PRODUCT SPECIFICATIONS

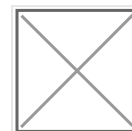
Preparation and Storage

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

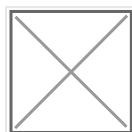
IMAGES



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CytoSelect 24-well Cell Migration Assay (3 μ m), 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 (3 μ m 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 3 μ m pore size is optimal for leukocyte chemotaxis. However, in the case of epithelial and fibroblast, a larger pore size (8 μ m) is recommended. The CytoSelect Cell Migration Assay Kit contains polycarbonate membrane inserts (3 μ m 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 (3 μ m), 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.
- Verma, S. et al. (2011). Selenoprotein K knockout mice exhibit deficient calcium flux in immune cells and impaired immune responses. J. Immunol. 186:2127-2137.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/assay-kits/cytoselect-24-well-cell-migration-assay-3-um-fluorometric/44529>