

Radius 96-Well Cell Migration Assay Assay Kit

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CATALOG #
AAA44589

PRODUCT SYNONYMS

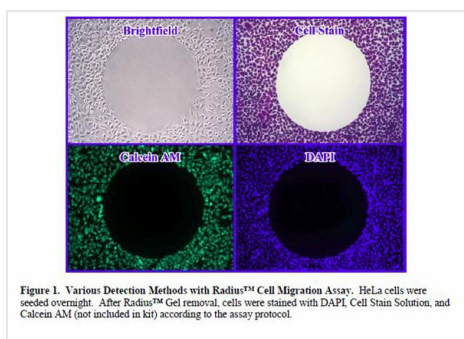
Radius 96-Well Cell Migration Assay; Radius 96-Well Cell Migration Assay assay kit

PRODUCT SPECIFICATIONS

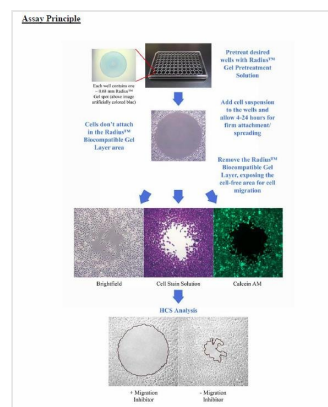
Preparation and Storage

Upon receipt, aliquot and store the Radius Gel Removal Solution and DAPI Fluorescence Stain at -20 degree C (avoid multiple freeze/thaw cycles), and transfer the Fixation Solution to 4 degree C. All other kit components should be stored at room temperature until the kit's expiration date.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for Radius 96-Well Cell Migration Assay 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). The Radius Cell Migration Assay Kit utilizes a proprietary 96-well plate to monitor the migratory properties of cells. Each plate well contains a 0.68 mm non-toxic, biocompatible hydrogel spot (Radius Gel) where cells cannot attach. When adherent cells are seeded in the Radius Cell Migration well, they attach outside of the Radius Gel coated area. Once firm cell attachment is achieved, the hydrogel is quickly removed to expose a cell-free region to study cell migration/closure. This format provides a robust in vitro system to measure 2-D cell migration, screen potential inhibitors and study cytoskeleton reorganization events. The Radius Cell Migration Assay Kit is designed for High Content Analysis applications or imaging software and is adaptable to liquid handling equipment. Each kit provides sufficient quantities to perform 96 migration tests.

Product Categories/Family for Radius 96-Well Cell Migration Assay assay kit

Cell Based Assays; Cell Migration; Invasion and Wound Healing; Gap Closure Assays; Cell Migration Assays; 2D Gap Closure

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. Camacho, M. et al. (2015). Prostacyclin-synthase expression in head and neck carcinoma patients and its prognostic value in the response to radiotherapy. J Pathol. 235:125-135.
2. Wong, B. et al. (2013). Adrenomedullin enhances invasion of human extravillous cytotrophoblast-derived cell lines by regulation of urokinase plasminogen activator expression and S-nitrosylation. Biol Reprod. 88:34.
3. Ichikawa, A. et al. (2013). CXCL10-CXCR3 enhances the development of neutrophil-mediated fulminant lung injury of viral and nonviral origin. Am. J. Respir. Crit. Care. Med. 187:65-77.
4. Coulouarn, C. et al. (2012). Hepatocyte-stellate cell cross-talk in the liver engenders a permissive inflammatory microenvironment that drives progression in hepatocellular carcinoma. Cancer Res. 72: 2533-2542.
5. Alcolea, S. et al. (2012). Interaction between head and neck squamous cell carcinoma cells and fibroblasts in the biosynthesis of PGE2. J.Lipid Res. 53:630-642.

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/radius-96-well-cell-migration-assay/44589>