

CytoSelect Tumor Transendothelial Migration Assay Assay Kit

CytoSelect Tumor Transendothelial Migration Assay

CATALOG #
AAA44609

PRODUCT SYNONYMS

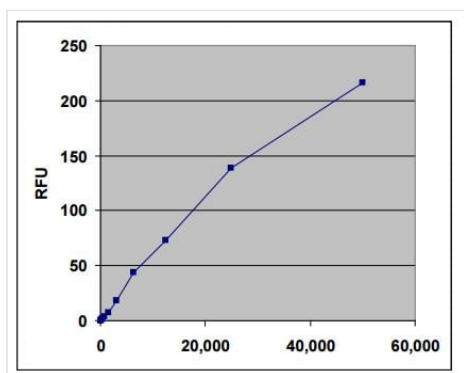
CytoSelect Tumor Transendothelial Migration Assay; CytoSelect Tumor Transendothelial Migration Assay assay kit

PRODUCT SPECIFICATIONS

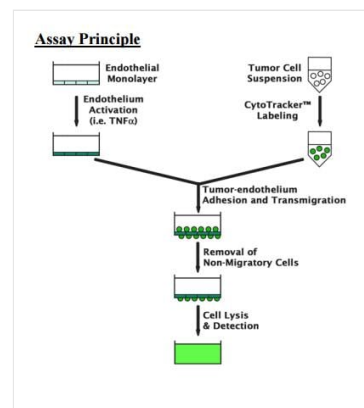
Preparation and Storage

CytoTracker Solution and TNFa should be removed from the kit and stored at -20 degree C immediately. Store all other components at 4 degree C.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CytoSelect Tumor Transendothelial Migration Assay assay kit

Background: Cancer metastasis comprises several steps. First tumor cells are shed into the blood stream (intravasation), circulating in the blood, and finally transmigrating out of the vessels (extravasation) into a new location in the body. The initial arrest and attachment of tumor cells to vascular endothelium precedes their extravasation from the blood stream and is a crucial step in the tumor metastatic cascade. Tumor cell extravasation is equivalent, in many respects, to the entry of leukocytes into inflammatory tissue. Leukocyte extravasation consists of multiple, consecutive processes including the capture of circulating leukocytes, subsequent leukocyte rolling, arrest, firm adhesion and transmigration. Increasing evidence suggests that tumor cell adhesion to the endothelial lining and transendothelial migration is influenced by endothelial activation or tissue-specific differences in endothelium and depends on the expression of specific cell surface molecules. E-Selectin and Vascular Cell Adhesion Molecule-1 (VCAM-1) appear to play a pivotal role in the tumor-EC interaction. CytoSelect Tumor Transendothelial Migration Assay provides a robust system for the quantitative determination of tumor-endothelium interactions and trans migrations. The kit contains sufficient reagents for the evaluation of 24 assays in a 24-well plate.

Product Categories/Family for CytoSelect Tumor Transendothelial Migration Assay assay kit

Cell Based Assays; Cell Migration; Invasion and Wound Healing; Boyden Chamber Assays; Transmigration Assays

References

1. Zen K. and Parkos C. A. (2003) Curr Opin Cell Biol. 15, 557-64.
1. Park, G. B. et al. (2015). Silencing of galectin-3 represses osteosarcoma cell migration and invasion through inhibition of FAK/Src/Lyn activation and beta-catenin expression and increases susceptibility to chemotherapeutic agents. Int J Oncol. 46:185-194.
2. Park, G.B. et al. (2014). The Epstein-Barr virus causes epithelial-mesenchymal transition in human corneal epithelial cells via Syk/Src and Akt/Erk signaling pathways. Invest. Ophthalmol. Vis. Sci. 55:1770-1779.
3. Xu, Z. et al. (2010). Role of pancreatic stellate cells in pancreatic cancer metastasis. Am. J. Pathol., 177:2585-2596.
4. Yang, H. and H.E. Grossniklaus (2010). Constitutive overexpression of pigment epithelium derived factor inhibition of ocular melanoma growth and metastasis. Invest. Ophthalmol. Vis. Sci. 51:28-34.5. Liu, K. et al. (2007). Lentivirus mediated gene transfer of PEDF results in decreased uveal melanoma transendothelial migration. Invest. Ophthalmol. Vis. Sci. 48:5244.

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-tumor-transendothelial-migration-assay/44609>