

CytoSelect 96-well Leukocyte-endothelium Assay Kit

CytoSelect 96-well Leukocyte-endothelium Adhesion Kit

CATALOG #
AAA44596

PRODUCT SYNONYMS

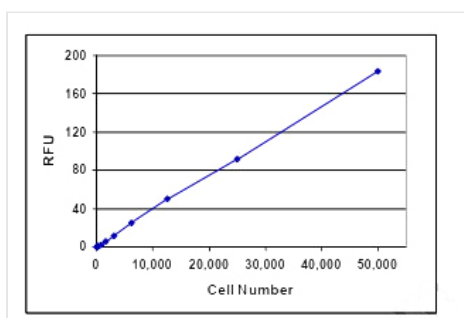
CytoSelect 96-well Leukocyte-endothelium; CytoSelect 96-well Leukocyte-endothelium Adhesion Kit; CytoSelect 96-well Leukocyte-endothelium assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage

LeukoTracker 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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CytoSelect 96-well Leukocyte- endothelium assay kit

Background: Leukocyte extravasation into perivascular tissue plays a key role in inflammatory diseases. This recruitment requires leukocyte interaction with vascular endothelium and consists of multiple, consecutive processes including the capture of circulating leukocytes, subsequent leukocyte rolling, arrest, firm adhesion and transmigration (Figure 1). This multistep paradigm is realized by sequential activation-dependent interactions between endothelial cell adhesion molecules and their specific ligands on leukocytes. The first step of transient adhesion and rolling is known to be mediated by an interaction of leukocyte or endothelial cell selectins and their oligosaccharide-bearing ligands. Arrest and firm adhesion of leukocytes to endothelium is dependent on the activation of beta2 integrins like Mac-1 or LFA-1 on the leukocyte cell surface, followed by interaction with endothelial cell proteins belonging to the Ig superfamily such as ICAM-1. CytoSelect™ Leukocyte-endothelium Adhesion Assay provides a robust system for the quantitative determination of leukocyte-endothelium interactions. The kit contains sufficient reagents for the evaluation of 100 assays in a 96-well plate.

Product Categories/Family for CytoSelect 96-well Leukocyte- endothelium assay kit

[Cell Based Assays](#); [Cell Adhesion](#); [96-Well Endothelium & Epithelium Adhesion Assays](#)

References

1. Carlos T. Mand Harlan J. M. (1994) Blood 84, 2068-101.
2. Meldrum, D. R. (1998) Am. J. Physiol. 274, R577-R595.
1. Sharma-Walia, N. et al. (2014). The Kaposi's Sarcoma-Associated Herpesvirus (KSHV)-Induced 5-Lipoxygenase-Leukotriene B4 Cascade Plays Key Roles in KSHV Latency, Monocyte Recruitment, and Lipogenesis. J. Virol. 88:2131-2156.
2. Avan, A. et al. (2013). Norepinephrine Increases NADPH Oxidase-Derived Superoxide in Human Peripheral Blood Mononuclear Cells via alpha-Adrenergic Receptors. Cancer Res. 73:6745-6756
3. Liu, G. et al. (2012). ICAM-1-activated Src and eNOS Signaling Increase Endothelial Cell Surface PECAM-1 Adhesivity and Neutrophil Transmigration. Blood. 120:1942-1952.
4. Fang, Y. et al. (2012). Site-Specific MicroRNA-92a Regulation of Kruppel-Like Factors 4 and 2 in Atherosusceptible Endothelium. Arterioscler Thromb Vasc Biol. 32:979-987.
5. Curatola, A.M. et al. (2012). Dehydroepiandrosterone (DHEA) Inhibition of Monocyte Binding by Vascular Endothelium is Associated with Sialylation of Neural Cell Adhesion Molecule. Reproductive Sciences 19:86-91.
6. Wang, Y.L. et al. (2011). Innate Immune Function of the Adherens Junction Protein p120-Catenin in Endothelial Response to Endotoxin. J. Immunol. 186-3180-3187.
7. Xue, J. et al. (2009). NFkB Regulates Thrombin-Induced ICAM-1 Gene Expression in Cooperation with NFAT by Binding to the Intronic NFkB Site in the ICAM-1 Gene. Physiol. Genomics 10.1152/physiolgenomics.00012.2009.

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-96-well-leukocyte-endothelium/44596>