

1P-640-T025

Monoclonal Antibody to CD209 Phycoerythrin (PE) conjugated (25 tests)

Clone:	UW60.1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody UW60.1 recognizes human CD209 (DC-SIGN), a 44 kDa transmembrane receptor expressed on the surface of dendritic cells and macrophages.
Regulatory Status:	RUO
Immunogen:	CD209-His-tagged fusion protein
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD209, also known as DC-SIGN (dendritic cell-specific ICAM-3-grabbing nonintegrin) is a transmembrane receptor expressed on the surface of dendritic cells and macrophages, which recognizes numerous pathogens ranging from parasites to viruses. Its N-terminal domain is transmembrane, whereas a tandem-repeat neck domain and the C terminal C-type lectin carbohydrate recognition domain have dual function as a pathogen recognition receptor and a cell adhesion receptor. The neck region is responsible for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. A ligand of CD209 is also CD50 (ICAM-3).
References:	*Khoo US, Chan KY, Chan VS, Lin CL: DC-SIGN and L-SIGN: the SIGNs for infection. <i>J Mol Med.</i> 2008 Aug;86(8):861-74. *van Kooyk Y, Geijtenbeek TB: A novel adhesion pathway that regulates dendritic cell trafficking and T cell interactions. <i>Immunol Rev.</i> 2002 Aug;186:47-56. *Geijtenbeek TB, Engering A, Van Kooyk Y: DC-SIGN, a C-type lectin on dendritic cells that unveils many aspects of dendritic cell biology. <i>J Leukoc Biol.</i> 2002 Jun;71(6):921-31. *Ryan EJ, Marshall AJ, Magaletti D, Floyd H, Draves KE, Olson NE, Clark EA: Dendritic cell-associated lectin-1: a novel dendritic cell-associated, C-type lectin-like molecule enhances T cell secretion of IL-4. <i>J Immunol.</i> 2002 Nov 15;169(10):5638-48.

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Antibodies

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