



1A-640-T025

## Monoclonal Antibody to CD209 Allophycocyanin (APC) conjugated (25 tests)

|                             |   |
|-----------------------------|---|
| <b>Clone:</b>               | UW60.1  |
| <b>Isotype:</b>             | Mouse IgG1  |
| <b>Specificity:</b>         | 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.   |
| <b>Regulatory Status:</b>   | RUO   |
| <b>Immunogen:</b>           | CD209-His-tagged fusion protein   |
| <b>Species Reactivity:</b>  | Human   |
| <b>Preparation:</b>         | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.   |
| <b>Storage Buffer:</b>      | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.   |
| <b>Storage / Stability:</b> | 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.   |
| <b>Usage:</b>               | The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.  |
| <b>Expiration:</b>          | See vial label  |
| <b>Lot Number:</b>          | See vial label  |
| <b>Background:</b>          | 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).   |
| <b>References:</b>          | *Khoo US, Chan KY, Chan VS, Lin CL: DC-SIGN and L-SIGN: the SIGNs for infection. J Mol Med. 2008 Aug;86(8):861-74.<br>*van Kooyk Y, Geijtenbeek TB: A novel adhesion pathway that regulates dendritic cell trafficking and T cell interactions. Immunol Rev. 2002 Aug;186:47-56.<br>*Geijtenbeek TB, Engering A, Van Kooyk Y: DC-SIGN, a C-type lectin on dendritic cells that unveils many aspects of dendritic cell biology. J Leukoc Biol. 2002 Jun;71(6):921-31.<br>*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. J Immunol. 2002 Nov 15;169(10):5638-48. |

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