

TECHNICAL DATA SHEET

CyFlow™ CD209 APC Anti-Hu; Clone UW60.1

REF BC639109

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD209
Alternative Names	DC-SIGN, DC-SIGN, DC-SIGN1, CLEC4L
Clone	UW60.1
Clonality	monoclonal
Format	APC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	CD209-His-tagged fusion protein

Specificity

The mouse monoclonal antibody UW60.1 recognizes CD209 antigen, a 44 kDa transmembrane receptor expressed on the surface of dendritic cells and macrophages.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD209 (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

- 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. < PMID: 12050176 >
- 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. < PMID: 12234361 >
- 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. < PMID: 12421943 >
- 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. < PMID: 18458800 >

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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