

## CD209(DC-SIGN) Antibody

Catalog No: #21600



Package Size: #21600-1 50ul #21600-2 100ul

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## Description

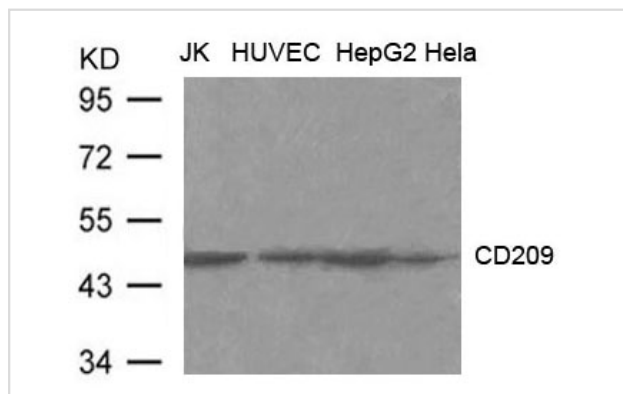
|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | CD209(DC-SIGN) Antibody                                                                                                                                                       |
| Host Species          | Rabbit                                                                                                                                                                        |
| Clonality             | Polyclonal                                                                                                                                                                    |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications          | WB                                                                                                                                                                            |
| Species Reactivity    | Hu                                                                                                                                                                            |
| Specificity           | The antibody detects endogenous level of total CD209 (DC-SIGN) protein.                                                                                                       |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                   |
| Immunogen Description | Peptide sequence around aa.389~393( E-Q-F-L-S )derived from Human CD209 (DC-SIGN).                                                                                            |
| Target Name           | CD209(DC-SIGN)                                                                                                                                                                |
| Other Names           | CDSIGN; CLEC4L; DC-SIGN                                                                                                                                                       |
| Accession No.         | Swiss-Prot: Q9NNX6NCBI Protein: NP_066978.1                                                                                                                                   |
| Concentration         | 1.0mg/ml                                                                                                                                                                      |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                  |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                                                                                     |

## Application Details

Predicted MW: 46kd

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extract from JK, HUVEC, HepG2 and Hela cells using CD209(DC-SIGN) Antibody #21600

## Background

Pathogen-recognition receptor expressed on the surface of immature dendritic cells (DCs) and involved in initiation of primary immune response.

Thought to mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. The receptor returns to the cell membrane surface and the pathogen-derived antigens are presented to resting T-cells via MHC class II proteins to initiate the adaptive immune response. Probably recognizes in a calcium-dependent manner high mannose N-linked oligosaccharides in a variety of pathogen antigens, including HIV-1 gp120, HIV-2 gp120, SIV gp120, ebolavirus glycoproteins, cytomegalovirus gB, HCV E2, dengue virus gE, Leishmania pifanoi LPG, Lewis-x antigen in Helicobacter pylori LPS, mannose in Klebsiella pneumoniae LPS, di-mannose and tri-mannose in Mycobacterium tuberculosis ManLAM and Lewis-x antigen in Schistosoma mansoni SEA.

On DCs it is a high affinity receptor for ICAM2 and ICAM3 by binding to mannose-like carbohydrates. May act as a DC rolling receptor that mediates transendothelial migration of DC precursors from blood to tissues by binding endothelial ICAM2. Seems to regulate DC-induced T-cell proliferation by binding to ICAM3 on T-cells in the immunological synapse formed between DC and T-cells.

Geijtenbeek T.B.H., Kwon D.S., Torensma R., van Vliet S.J. Cell 100:587-597(2000)

Geijtenbeek T.B.H., Krooshoop D.J., Bleijs D.A., van Vliet S.J. Nat. Immunol. 1:353-357(2000)

Engering A., Geijtenbeek T.B.H., van Vliet S.J., van Kooyk Y.J. Immunol. 168:2118-2126(2002)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.