

## CD209 Rabbit pAb

CatalogNo: YT5633

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA

#### MW

- 45kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**WB 1:500-1:2000****ELISA 1:10000****Not yet tested in other applications.**

### Storage

**Storage\***

-15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality**

Polyclonal

### Immunogen Information

**Immunogen**

Synthesized peptide derived from CD209 antigen at AA range: 261-310

**Specificity**

CD209 Polyclonal Antibody detects endogenous levels of CD209 protein.

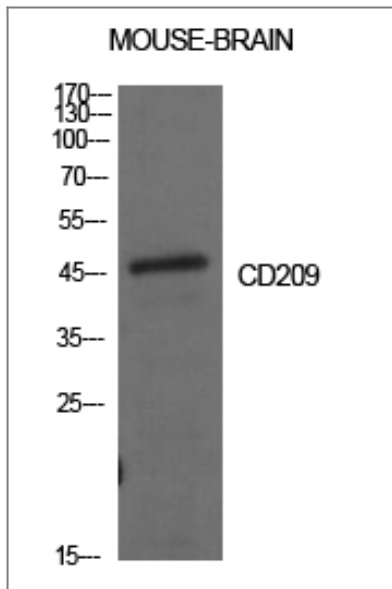
### Target Information

**Gene name**

CD209

Protein Name	CD209 antigen		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">30835</a> ;	<a href="#">Q9NNX6</a> ;
Cellular Localization	[Isoform 1]: Cell membrane ; Single-pass type II membrane protein .; [Isoform 2]: Cell membrane ; Single-pass type II membrane protein .; [Isoform 3]: Cell membrane ; Single-pass type II membrane protein .; [Isoform 4]: Cell membrane ; Single-pass type II membrane protein .; [Isoform 5]: Cell membrane ; Single-pass type II membrane protein .; [Isoform 6]: Secreted .; [Isoform 7]: Secreted .; [Isoform 8]: Secreted .; [Isoform 9]: Secreted .; [Isoform 10]: Secreted .; [Isoform 11]: Secreted .; [Isoform 12]: Secreted .		
Tissue specificity	Predominantly expressed in dendritic cells and in DC-residing tissues. Also found in placental macrophages, endothelial cells of placental vascular channels, peripheral blood mononuclear cells, and THP-1 monocytes.		
Function	<p>Alternative products:Additional isoforms seem to exist. Several splicing events may be used independently in a modular way. Deletion of the transmembrane domain encoding exon through alternative splicing produces soluble isoforms,Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,Domain:The tandem repeat domain, also called neck domain, mediates oligomerization.,Function: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 presursors 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.,Function: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.,miscellaneous:In vitro, is a receptor for HIV-1 and transmits HIV-1 either in trans without DC infection, or in cis following a DC infection to permissive T-cells to induce a robust infection. Bound HIV-1 remains infectious over a prolonged period of time and it is proposed that bound HIV-1 is not degraded but protected in non-lysosomal acidic organelles within the DCs close to the cell membrane thus contributing to the HIV-1 infectious potential during transport by DCs from the periphery to lymphoid organs.,online information:DC-SIGN,online information:DC-SIGN entry,polymorphism:Genetic variations in CD209 determine Mycobacterium tuberculosis susceptibility [MIM:607948].,similarity:Contains 1 C-type lectin domain.,subunit:Homotetramer. Binds to many viral surface glycoproteins such as HIV-1 gp120, HIV-2 gp120, SIV gp120, ebolavirus envelope glycoproteins, cytomegalovirus gB, HCV E2 and dengue virus major envelope protein E.,tissue specificity:Predominantly expressed in dendritic cells and in DC-residing tissues. Also found in placental macrophages, endothelial cells of placental vascular channels, peripheral blood mononuclear cells, and THP-1 monocytes.,</p>		

| Validation Data



Western Blot analysis of mouse brain cells using CD209 Polyclonal Antibody. Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

## Contact information

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Please scan the QR code  
to access additional  
product information:  
**CD209 Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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