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CD209

Purified Mouse Monoclonal Antibody
Catalog # AO2685a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q9NNX6
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5C2A6
Isotype	Mouse IgG1
Calculated MW	45775
Immunogen	Purified recombinant fragment of human CD209 (AA: extra 270-404) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	30835
Other Names	CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD209 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD209 (HGNC:1641)
Synonyms	CLEC4L
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.

Cellular Location	[Isoform 1]: Membrane raft; Single-pass type II membrane protein [Isoform 3]: Cell membrane; Single- pass type II membrane protein [Isoform 5]: Cell membrane; Single- pass type II membrane protein [Isoform 7]: Secreted. [Isoform 9]: Secreted. [Isoform 11]: Secreted.
Tissue Location	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.

References

1.Blood. 2015 Oct 15;126(16):1911-20. 2.PLoS One. 2014 Aug 22;9(8):e105236.

Images

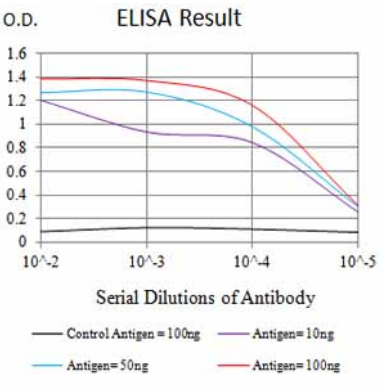


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

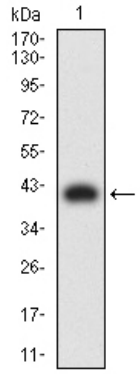


Figure 2:Western blot analysis using CD209 mAb against human CD209 (AA: extra 270-404) recombinant protein. (Expected MW is 41.1 kDa)

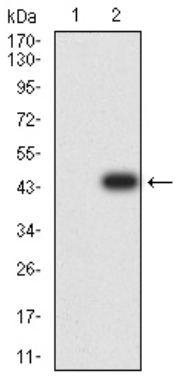
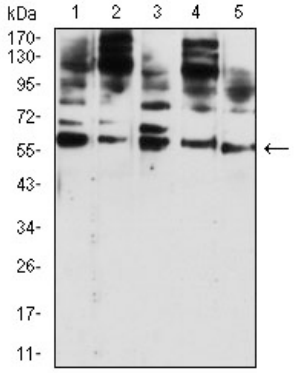


Figure 3:Western blot analysis using CD209 mAb against HEK293 (1) and CD209 (AA: extra 270-404)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Western blot analysis using CD209 mouse mAb against Hela (1), U937 (2), THP-1 (3), HL-60 (4), and A431 (5) cell lysate.



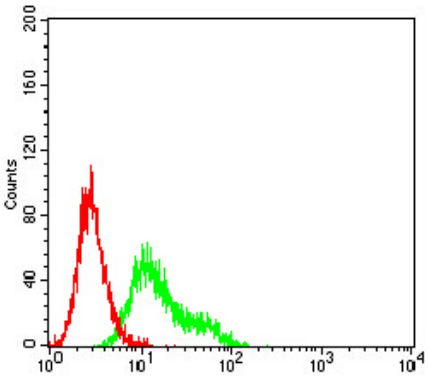


Figure 5:Flow cytometric analysis of Ramos cells using CD209 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.