



CD209A peptide (DAG-P0416)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 pneumonae 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 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.
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.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 C-type lectin domain.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

45-1 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-624-4882 Fax: 1-631-938-8221

GENE INFORMATION

Gene Name	Cd209a CD209a antigen [Mus musculus (house mouse)]
Official Symbol	CD209A
Synonyms	CD209A; CD209a antigen; CIRE; CD209; CDSIGN; Dcsign; SIGNR5; DC-SIGN; SIGN-R1; DC-SIGN1; CD209 antigen-like protein A; dendritic cell-specific ICAM-3-grabbing non-integrin;
Entrez Gene ID	<u>170786</u>
mRNA Refseq	NM 133238.5
Protein Refseq	NP 573501.1
UniProt ID	Q91ZX1
Chromosome Location	8 A1.1; 8
Pathway	Measles, organism-specific biosystem; Measles, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;
Function	carbohydrate binding; mannose binding; metal ion binding;