



Human CD209 peptide (DAG-P0415)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a transmembrane receptor and is often referred to as DC-SIGN because of its expression on the surface of dendritic cells and macrophages. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are rare but have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GenelD 10332; often referred to as L-SIGN). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants.[provided by RefSeq, Feb 2009]
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.
Format	Liquid
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.

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GENE INFORMATION

member L; dendritic cell-specific ICAM-3-grabbing non-integrin 1; dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin; Entrez Gene ID 30835 mRNA Refseq NM 001144893.1 Protein Refseq NP 001138365.1 UniProt ID B2R907 Chromosome Location 19p13	Gene Name	CD209 CD209 molecule [Homo sapiens (human)]
gpl20-binding protein; C-type lectin domain family 4 member L; C-type lectin domain family member L; dendritic cell-specific ICAM-3-grabbing non-integrin 1; dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin; Entrez Gene ID 30835 mRNA Refseq NM 001144893.1 Protein Refseq NP 001138365.1 UniProt ID B2R907 Chromosome Location 19p13 Pathway Measles, organism-specific biosystem; Measles, conserved biosystem; Phagosome, organispecific biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem; Tuberculosis, conserved binding; metal ion binding; peptide antigen binding; virion	Official Symbol	CD209
mRNA Refseq NM 001144893.1 Protein Refseq NP 001138365.1 UniProt ID B2R907 Chromosome Location 19p13 Pathway Measles, organism-specific biosystem; Measles, conserved biosystem; Phagosome, organispecific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem; Function carbohydrate binding; mannose binding; metal ion binding; peptide antigen binding; virion	Synonyms	gpl20-binding protein; C-type lectin domain family 4 member L; C-type lectin domain family 4, member L; dendritic cell-specific ICAM-3-grabbing non-integrin 1; dendritic cell-specific
Protein Refseq NP_001138365.1 UniProt ID B2R907 Chromosome Location 19p13 Pathway Measles, organism-specific biosystem; Measles, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem; Tuberculosis, conserved biosystem; Function carbohydrate binding; mannose binding; metal ion binding; peptide antigen binding; virion	Entrez Gene ID	<u>30835</u>
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	Pathway	
	Function	