



## Rabbit Anti-CD299 antibody

SL10064R

<b>Product Name:</b>	CD299
<b>Chinese Name:</b>	CD299抗体
<b>Alias:</b>	C type lectin domain family 4 member M; C type lectin domain family 4, member M; C-type lectin domain family 4, member M; CD209 antigen like protein 1; CD209 antigen-like; CD209L; CD209L1; CD299 antigen; CLEC4M; DC SIGN related protein; DC SIGN2; DC SIGNR; DC-SIGN related protein; DC-SIGN2; DC-SIGNR; DCSIGN-related protein; DCSIGNR; dendritic cell specific ICAM-3-grabbing nonintegrin 2; Dendritic cell-specific ICAM-3-grabbing non-integrin 2; HP10347; L SIGN; Liver/lymph node specific ICAM 3 grabbing nonintegrin; Liver/lymph node-specific ICAM3-grabbing nonintegrin; LSIGN; Mannose binding C-type lectin DC-SIGNR; MGC129964; MGC47866; CLC4M_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	45kDa
<b>Cellular localization:</b>	The cell membraneSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CD299:101-200/399<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>Dendritic cells (DC) play a primary role in the immune system as antigen presenting cells. A key molecule, dendritic cell specific ICAM3 grabbing nonintegrin (DC SIGN1), is involved in regulating interactions between DC and resting T cells, including antigen presentation to T cells and enhancement of transinfection of CD4+ T cells by HIV 1. Efforts to identify additional type II membrane proteins resulted in the isolation of a related molecule named CD299, also known as DC SIGNR (DC SIGN Related), DC SIGN2, CD209L, and L SIGN (liver/lymph nodespecific ICAM3 grabbing nonintegrin). CD299 is located on Human chromosome 19p13.3 and shares 73-80% amino acid identity with DC SIGN1. Its structure is similar to DC SIGN1 and therefore binds mannose residues in a calcium dependent fashion, including ICAM3 and HIV 1 gp120. CD299 is polymorphic, since allelic variations of the exon 4 encoded sequence have been isolated. This is further supported by a study demonstrating the ability to isolate a large repertoire of CD299 transcripts largely the result of alternative splicing of the 7 coding exons. CD299 is primarily transcribed in the liver and lymph nodes but not in monocyte derived DC. Expression of CD299 is restricted to endothelial cells derived from liver sinusoids, lymph nodes sinuses, and capillaries, although variable expression in placenta and some monocytic cell lines has also been reported, including both membrane and soluble isoforms of the protein.</p> <p><b>Function:</b>  Probable pathogen-recognition receptor involved in peripheral immune surveillance in liver. May mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. 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, HCV E2, and human SARS coronavirus protein S. Is a receptor for ICAM3, probably by binding to mannose-like carbohydrates. Is presumably a coreceptor for the SARS coronavirus.</p> <p><b>Subunit:</b>  Homotetramer. Binds to many viral surface glycoproteins such as HIV-1 gp120, HIV-2 gp120, SIV gp120, ebolavirus glycoproteins, HCV E2, and human SARS coronavirus S protein.</p> <p><b>Subcellular Location:</b>  Isoform 1, 2, 3: Cell membrane; Single-pass type II membrane protein (Potential).  Isoform 5, 6, 7, 10: Secreted (Potential).</p> <p><b>Tissue Specificity:</b>  Predominantly highly expressed in liver sinusoidal endothelial cells and in lymph node. Found in placental endothelium but not in macrophages. Expressed in type II alveolar cells and lung endothelial cells.</p> <p><b>Similarity:</b>  Contains 1 C-type lectin domain.</p>

**SWISS:**  
Q9H2X3

**Gene ID:**  
10332

**Database links:**

[Entrez Gene: 10332](#)Human

[Omic: 605872](#)Human

[SwissProt: Q9H2X3](#)Human

[Unigene: 421437](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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