CLEC4M Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CLEC4M, Monoclonal Antibody
Full Product Name	CLEC4M (C-type Lectin Domain Family 4 Member M, CD209 Antigen-like Protein 1, DC-SIGN-related Protein, DC-SIGNR, Dendritic Cell-specific ICAM integrin 2, DC-SIGN2, Liver/Lymph Node-specific ICAM-3-grabbing Non-integrin, L-SIGN, CD299, CD209
Product Gene Name	anti-CLEC4M antibody
Clonality	Monoclonal
Isotype	IgG3, lambda
Clone Number	2G1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CLEC4M.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	44kDa
OMIM	AB015629 mRNA
3D Structure	ModBase 3D Structure for Q9H2X3
Immunogen	Partial recombinant corresponding to aa285-394 from CLEC4M (NP_055072) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SQRNWHDSVTACQEVRAQLVVIKTAEEQNFLQLQTSRSNRFSWMGLSDLNQEGTWQWVDGSPLSPSFQRYWNSGEPNNSGNEDCAEFSGSGWNDN
Conjugate	MaxLight405
Product Categories/Family for anti-CLEC4M antibody	Antibodies; Lectins
Applications Tested/Suitable for anti-CLEC4M antibody	FLISA, Western Blot (WB)
Application Notes for anti-CLEC4M antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CLEC4M antibody	Probable pathogen-recognition receptor involved in peripheral immune surveillance in liver. May mediate the endocytosis of pathogens which are subse lysosomal compartments. Probably recognizes in a calcium-dependent manner high mannose N-linked oligosaccharides in a variety of pathogen antige gp120, HIV-2 gp120, SIV gp120, ebolavirus glycoproteins, HCV E2, and human SARS coronavirus protein S. Is a receptor for ICAM3, probably by bind carbohydrates. Is presumably a coreceptor for the SARS coronavirus.

Other Notes	Small volumes of anti-CLEC4M antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional
Searchable Terms for CLEC4M purchase	MBS6189502 is an antibody targeting CLEC4M. Also known as CLEC4M (C-type Lectin Domain Family 4 Member M, CD209 Antigen-like Protein 1, D Protein, DC-SIGNR, Dendritic Cell-specific ICAM-3-grabbing Non-integrin 2, DC-SIGN2, Liver/Lymph Node-specific ICAM-3-grabbing Non-integrin, L-S Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLEC4M. It may not necessarily be applicable to this product.

NCBI GI #	42542390
NCBI GeneID	10332
NCBI Accession #	NP_055072
UniProt Primary Accession #	Q9H2X3
UniProt Related Accession #	Q9H2X3
GenBank Nucleotide #	NM_014257
NCBI Official Full Name	C-type lectin domain family 4 member M isoform 1
NCBI Official Synonym Full Names	C-type lectin domain family 4 member M
NCBI Official Symbol	CLEC4M
NCBI Official Synonym Symbols	CD299; LSIGN; CD209L; L-SIGN; DCSIGNR; HP10347; DC-SIGN2; DC-SIGNR
UniProt Protein Name	C-type lectin domain family 4 member M
UniProt Synonym Protein Names	CD209 antigen-like protein 1; DC-SIGN-related protein; DC-SIGNR; Dendritic cell-specific ICAM-3-grabbing non-integrin 2; DC-SIGN2; Liver/lymph node-specific ICAM-3-grabbing non-integrin; L-SIGN; CD_antigen: CD299
Protein Family	C-type lectin domain family
UniProt Gene Name	CLEC4M
UniProt Synonym Gene Names	CD209L; CD209L1; CD299; DC-SIGNR; DC-SIGN2; L-SIGN
UniProt Entry Name	CLC4M_HUMAN
NCBI Protein Information	C-type lectin domain family 4 member M
NCBI Summary for CLEC4M	This gene encodes a transmembrane receptor and is often referred to as L-SIGN because of its expression in the endothelial cells of the lymph nodes and liver. 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 common and have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GeneID 30835; often referred to as DC-SIGN or CD209). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants.[provided by RefSeq, Feb 2009]

UniProt Comments for CLEC4M	CLEC4M: 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. 10 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 19p13 Cellular Component: integral to plasma membrane; membrane Molecular Function: calcium-dependent protein binding; viral receptor activity; virion binding Biological Process: cell-cell recognition; regulation of blood coagulation; regulation of gene expression; virion attachment to host cell surface receptor; virus-host interaction
Research Articles on CLEC4M	**1.** heterozygous VNTR genotypes 57 and 67 of CLEC4M were highly enriched and are the most likely mechanism through which CLEC4M contributes to disease in the Swedish type 1 VWD population
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