Recombinant Human CLEC4M Protein, His-tagged

Cat. No. CLEC4M-151H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C-type lectin domain family 4 member M(CLEC4M), transcript variant 1(NM_014257), with a His tag, was expressed in human cells.
Species	Human
Source	Human Cells
Description	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.

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Form	Purified protein formulated in a sterile solution of TBS buffer, pH7.184, without any preservatives.
Molecular Mass	45.2 kDa
Endotoxin	Endotoxin level is < 0.1 ng/ɡ of protein (<1EU /ɡ)
Purity	>90% by SDS-PAGE gel and Coomassie Blue staining
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

GENE INFORMATION

Gene Name	CLEC4M C-type lectin domain family 4, member M [Homo sapiens]
Official Symbol	CLEC4M
Synonyms	CLEC4M; C-type lectin domain family 4, member M; CD209L, CD299, CD299 antigen; C-type lectin domain family 4 member M; DC SIGN2; DC SIGNR; DCSIGNR; HP10347; LSIGN; CD299 antigen; DC-SIGN-related protein; CD209 antigen-like protein 1; mannose binding C-type lectin DC-SIGNR; dendritic cell-specific ICAM-3-grabbing non-integrin 2; liver/lymph node-specific ICAM-3 grabbing non-integrin; liver/lymph node-specific ICAM-3-grabbing non-integrin; CD299; CD209L; L-SIGN; DC-SIGN2; DC-SIGNR; MGC47866; MGC129964;
Gene ID	10332
mRNA Refseq	NM_001144904
Protein Refseq	NP_001138376

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MIM	605872
UniProt ID	Q9H2X3

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