

Recombinant Human CLEC4M Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CLEC4M-5236H Lot. No. (See product label)

SPECIFICATION

Product Overview	CLEC4M MS Standard C13 and N15-labeled recombinant protein (NP_055072) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a C-type lectin that functions in cell adhesion and pathogen recognition. This receptor recognizes a wide range of evolutionarily divergent pathogens with a large impact on public health, including tuberculosis mycobacteria, and viruses including Ebola, hepatitis C, HIV-1, influenza A, West Nile virus and the SARS-CoV acute respiratory syndrome coronavirus. The protein is organized into four distinct domains: a C-terminal carbohydrate recognition domain, a flexible tandem-repeat neck domain of variable length, a transmembrane region and an N-terminal cytoplasmic domain involved in internalization. This gene is closely related in terms of both sequence and function to a neighboring gene, CD209 (Gene ID: 30835), also known as DC-SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression in endothelial cells of the liver, lymph node and placenta. Polymorphisms in the tandem repeat neck domain are associated with resistance to SARS infection.
Molecular Mass	45.4 kDa

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AA Sequence	MSDSKEPRVQQLGLLEEDPTTSGIRLFPRDFQFQQIHGHKSSTGCLGHGALVLQLLS FMLLAGVLVAILVQVSKVPSSLSQEQSEQDAIYQNLTQLKAAVGELSEKSKLQEIYQE LTQLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTRLKAAVGELP EKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTELKAAVGELPEKSKLQEIYQELT QLKAAVGELPDQSKQQIYQELTDLKTAFERLCRHCPKDWTFQGNCFMSNSQR NWHDSVTACQEVRAQLVVIKTAAEQNFLQLQTSRSNRFSWMGLSDLNQEGTWQW VDGSPLSPSFQRYWNSGEPNNSGNECAEFSGSGWWDNRCDVDNYWICKKPAAC FRDETRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CLEC4M C-type lectin domain family 4 member M [Homo sapiens (human)]
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;

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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_014257

Protein Refseq NP_055072

MIM 605872

UniProt ID Q9H2X3

SDS-PAGE



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