

Product datasheet for PH307947

CD299 (CLEC4M) (NM_014257) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CLEC4M MS Standard C13 and N15-labeled recombinant protein (NP_055072)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207947
Predicted MW:	45.4 kDa
Protein Sequence:	>RC207947 protein sequence Red=Cloning site Green=Tags(s)

MSDSKEPRVQQLGLLEEDPTTSGIRLFPRDFQFQQIHGHKSSTGCLGHGALVLQLLSFMLLAGVLVAILV
QVSKVPSSLSQEQSEQDAIYQNLTLKAAVGELSEKSKLQEIYQELTQLKAAVGELPEKSKLQEIYQELT
RLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTE
LKAAVGELPEKSKLQEIYQELTQLKAAVGELPDQSKQQIYQELTDLKTAFERLCRHCPKDWTFQGNKY
FMSNSQRNWHDSVTACQEVRAQLVVIKTAEEQNFLQLQTSRSNRFSWMGLSDLNQEGTWQWVDGSPLSPS
FQRYWNSGEPNNSGNEDCAEFSGSGWNDNRCDVDNYWICKKPAACFRDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_055072</u>
RefSeq Size:	1976
RefSeq ORF:	1197
Synonyms:	CD209L; CD299; DC-SIGN2; DC-SIGNR; DCSIGNR; HP10347; L-SIGN; LSIGN
Locus ID:	10332



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UniProt ID: [Q9H2X3](#)

Cytogenetics: 19p13.2

Summary: 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. [provided by RefSeq, May 2020]

Protein Families: Druggable Genome, Transmembrane

Product images:



Coomassie blue staining of purified CLEC4M protein (Cat# [TP307947]). The protein was produced from HEK293T cells transfected with CLEC4M cDNA clone (Cat# [RC207947]) using MegaTran 2.0 (Cat# [TT210002]).