CD299 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76219
Synonyms:	C-type lectin domain family 4 member M; DC-SIGNR; DC-SIGN2; L-SIGN; CD299; CLEC4M; CD209L
Species:	Human
Source:	HEK293
Accession:	Q9H2X3-1/NP_055072.3 (S78-E399)
Gene ID:	10332
Molecular Weight:	65.83 KDa, due to glycosylation

PROPERTIES

AA Sequence	S L S Q E Q S E Q D A I Y Q N L T Q L K A A V G E L S E K S K L Q E I Y Q E L T Q L K A A V G E L P E K S K L Q E I Y Q E L T R L K A A V G E L P E K S K L Q E I Y Q E L T R L K A A V G E L P E K S K L Q E I Y Q E L T R L K A A V G E L P E K S K L Q E I Y Q E L T E L K A A V G E L P E K S K L Q E I Y Q E L T Q L K A A V G E L P D Q S K Q Q Q I Y Q E L T D L K T A F E R L C R H C P K D W T F F Q G N C Y F M S N S Q R N W H D S V T A C Q E V R A Q L V V I K T A E E Q N F L Q L Q T S R S N R F S W M G L S D L N Q E G T W Q W V D G S P L S P S F Q R Y W N S G E P N N S G N E D C A E F S G S G W N D N R C D V D N Y W I C K K P A A C F R D E
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	CD299, a gene encoding a C-type lectin, plays crucial roles in cell adhesion and pathogen recognition. This receptor has broad specificity, recognizing a diverse array of pathogens with significant public health implications, including tuberculosis mycobacteria, Ebola, hepatitis C, HIV-1, influenza A, West Nile virus, and the SARS-CoV acute respiratory syndrome coronavirus. The protein structure comprises four distinct domains: a C-terminal carbohydrate recognition domain, a

variable-length flexible tandem-repeat neck domain, a transmembrane region, and an N-terminal cytoplasmic domain involved in internalization. CD299 shares close sequence and functional similarities with its neighboring gene, CD209 (also known as DC-SIGN), though they differ in viral recognition and expression patterns. CD299 exhibits high expression in endothelial cells of the liver, lymph nodes, and placenta. Notably, polymorphisms in the tandem repeat neck domain are associated with resistance to SARS infection. With biased expression observed in tissues such as the liver (RPKM 15.4) and lymph nodes (RPKM 9.8), CD299 emerges as a critical player in immune response and pathogen defense.

Caution: Product has not been fully validated for medical applications. For research use only.

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