DC-SIGN/CD209 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P70110
Synonyms:	rHuCD209 antigen/CD209, Fc; CD209 molecule; CD209; CDSIGNHIV gpl20-binding protein; CLEC4L; DCSIGN; DC-SIGN; DC-SIGN1; CD209 Antigen
Species:	Human
Source:	HEK293
Accession:	Q9NNX6 (Q59-A404)
Gene ID:	30835
Molecular Weight:	Approximately 78 kDa

PROPERTIES

AA Sequence	Q V S K V P S S I S Q E Q S R 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 W L K A A V G E L P E K S K M Q E I Y Q E L T R L K A A V G E L P E K S K Q Q E I Y Q E L T R L K A A V G E L P E K S K Q Q E I Y Q E L T R L K A A V G E L P E K S K Q Q E I Y Q E L T Q L K A A V E R L C H P C P W E W T F F Q G N C Y F M S N S Q R N W H D S I T A C K E V G A Q L V V I K S A E E Q N F L Q L Q S S R S N R F T W M G L S D L N Q E G T W Q W V D G S P L L P S F K Q Y W N R G E P N N V G E E D C A E F S G N G W N D D K C N L A K F W I C K K S A A S C S R D E E Q F L S P A P A T P N P P P A
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	DC-SIGN/CD209 Protein, expressed on the surface of immature dendritic cells (DCs), serves as a pivotal pathogen-recognition receptor, playing a crucial role in initiating the primary immune response. This receptor is implicated in the endocytosis of pathogens, leading to their subsequent degradation within lysosomal compartments. Following this process,

DC-SIGN returns to the cell membrane surface, presenting pathogen-derived antigens to resting T-cells through MHC class II proteins, thereby triggering the adaptive immune response. On DCs, it acts as a high-affinity receptor for ICAM2 and ICAM3, binding to mannose-like carbohydrates. Notably, DC-SIGN may function as a DC rolling receptor, facilitating the transendothelial migration of DC precursors from the bloodstream to tissues by interacting with endothelial ICAM2. Furthermore, it appears to modulate DC-induced T-cell proliferation through its binding to ICAM3 on T-cells within the immunological synapse formed between DCs and T-cells.

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