

DC-SIGN/CD209 Protein, Rhesus Macaque (HEK293, Fc)

Cat. No.:	HY-P74206
Synonyms:	CD209 antigen; DC-SIGN1; CD209
Species:	Rhesus Macaque
Source:	HEK293
Accession:	AAK74185 (K62-E381)
Gene ID:	574211
Molecular Weight:	Approximately 64.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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, is a C-type lectin receptor present on the surface of both macrophages and 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 ^{[1][2]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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