

Recombinant Rhesus CD209 protein, Fc-tagged

Cat. No. CD209-728R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus CD209(Lys62-Glu381) fused with the Fc region of human IgG1 at the N-terminus was expressed in HEK293.
Species	Rhesus macaque
Source	HEK293
ProteinLength	Lys62-Glu381
Description	Dendritic cell (DC)-specific intercellular adhesion molecule 3 (ICAM-3) grabbing nonintegrin (DC-SIGN), also known as CD209, is a type II transmembrane protein on DCs with a C-type lectin extracellular domain, is capable of binding ICAM-3 on resting T cells in the secondary lymphoid organs, providing the initial contact between these cells during the establishment of cell-mediated immunity. It is not only a pattern recognition receptor but implicated in immunoregulation of DCs. It has important role in mediating DC adhesion, migration, inflammation, activating primary T cell, triggering immune response and participating in immune escape of pathogens and tumors. DC-SIGN also mediates capture and internalization of viral, bacterial, and fungal pathogens by dendritic cells, such as HIV-1, Ebola virus, cytomegalovirus, Dengue virus, and hepatitis C virus. DC-SIGN is unique in that it regulates adhesion processes, such as DC trafficking and T-cell synapse formation, as well as antigen capture. Moreover, even though several C-type lectins have been shown to bind HIV-1, DC-SIGN does not only capture HIV-1 but also protects it in early endosomes allowing HIV-1 transport by DC to lymphoid tissues, where it enhances trans infection

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	of T cells.
Predicted N Terminal	Glu
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Molecular Mass	The recombinant rhesus CD209 consists of 580 amino acids and predicts a molecular mass of 64.9 kDa.
Endotoxin	<1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name CD209 CD209 molecule [*Macaca mulatta*]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	CD209
Synonyms	DC-SIGN; CD209 antigen; DC-SIGN1; dendritic cell-specific ICAM-3 grabbing non-integrin; dendritic cell-specific ICAM-3-grabbing non-integrin 1; putative mannose-binding C-type lectin; putative mannose-binding C-type lectin mDC-SIGN
Gene ID	574211
mRNA Refseq	NM_001032870
Protein Refseq	NP_001028042
UniProt ID	Q95J96
Chromosome Location	chromosome: 19
Pathway	Measles, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, conserved biosystem

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA