Recombinant Mouse CD209 Protein (Val73-Lys238), N-HA-tagged

Product Information

Cat	*IMP-10263*
Official Symbol	*Cd209a*
Product Overview	*Recombinant Mouse DC-SIGN/CD209 protein (Val73-Lys238) with an N-terminal HA tag was expressed in Mouse myeloma cell line.*
Description	*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 leprosy and tuberculosis mycobacteria, the Ebola, hepatitis C, HIV-1 and Dengue viruses, 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, 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, CLEC4M (Gene ID: 10332), also known as L-SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression on the surface of dendritic cells. Polymorphisms in the neck region are associated with protection from HIV-1 infection, while single nucleotide polymorphisms in the promoter of this gene are associated with differing resistance and susceptibility to and severity of infectious disease, including rs4804803, which is associated with SARS severity.*
Expression System	*Mouse myeloma cell line*
Species	*Mouse*
Tag	*N-HA*
Predicted N Terminal	*Tyr (HA tag)*
Form	*Lyophilized from a 0.2 μm filtered solution in PBS.*
Molecular Mass	*Predicted Molecular Mass: 20 kDa SDS-PAGE: 21-26 kDa, reducing conditions*
Protein length	*Val73-Lys238*
Bio-activity	*Measured by its binding ability in a functional ELISA. When Recombinant Mouse DC-SIGN is coated at 1 μg/mL (100 μL/well), the concentration of Recombinant Mouse ICAM-5 Fc Chimera that produces 50% optimal binding response is 0.8-4 μg/mL.*
Endotoxin	

45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-559-9269 1-516-512-3133 E-mail: info@creative-biomart.com

Purity	*>95%, by SDS-PAGE with silver staining*
Storage	*Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.*
Reconstitution	*Reconstitute at 100 µg/mL in sterile PBS.*

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