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Product Information

MemDX™ Membrane Protein Human CD209 (CD209 molecule) Full Length

Cat. No.: **MPC2854K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CD209 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
CD209

Protein Length
Full length

Protein Class
Receptor; Immunity

TMD
1

Sequence
MSDSKEPRLQQLGLLEEEQLRGLGFRQTRGYKSLAGCLGHGPLVLQLLSF
TLLAGLLVQVSKVPSSISQEQSRQDAIYQNLTQLKAAVGELSEKSKLQEI
YQELTQLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQEL
TWLKAAVGELPEKSKMQEIYQELTRLKAAVGELPEKSKQQEIYQELTRLK
AAVGELPEKSKQQEIYQELTRLKAAVGELPEKSKQQEIYQELTQLKAAVE
RLCHPCPWEWTFFQGNCYFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQ
NFLQLQSSRSNRFTWMGLSDLNQEGTWQWVDGSPLLPSFKQYWNRGEPNN
VGEEDCAEFSGNGWNDDKCNLAKFWICKKSAASCSRDEEQFLSPAPATPN
PPPA

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format
Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CD209

Full Name

CD209 molecule

Introduction

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.

Alternative Names

CD209; CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1; hDC-SIGN; CD209 antigen; C-type lectin domain family 4 member L; HIV gpl20-binding protein; dendritic cell-specific ICAM-3-grabbing non-integrin 1; dendritic cell-specific intercellular adhesion molecule-3-grabbing non-integrin; dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin; CD209 molecule

Gene ID

30835

UniProt ID

Q9NNX6

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