

Recombinant Mouse Nectin1 Protein, Fc-tagged

Cat. No. PVRL1-13731M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse NECTIN1 (NP_067399.2) (Met1-Ala354) was expressed in HEK293 cells with the Fc region of human IgG1 at the C-terminus.

Species Mouse

Source HEK293

ProteinLength 1-354 a.a.

Description

Poliovirus receptor-related 1 (herpesvirus entry mediator C; nectin-1; CD111), also known as PVRL1 is a cell adhesion molecule belonging to the immunoglobulin superfamily that can bind to virion glycoprotein D (gD) to mediate entry of herpes simplex viruses (HSV) and pseudorabies virus (PRV). CD111/Nectin-1/PVRL1 colocalizes with E-cadherin at adherens junctions in epithelial cells. The disruption of cell junctions can result in the redistribution of nectin-1. To determine whether disruption of junctions by calcium depletion influenced the susceptibility of epithelial cells to viral entry, Madin-Darby canine kidney cells expressing endogenous nectin-1 or transfected human nectin-1 were tested for the ability to bind soluble forms of viral gD and to be infected by HSV and PRV, before and after calcium depletion. It has been revealed that binding of HSV and PRV gD was localized to adherens junctions in cells maintained in normal medium but was distributed, along with nectin-1, over the entire cell surface after calcium depletion. Both the binding of gD and the fraction of cells that could be infected by HSV-1 and PRV were enhanced by calcium depletion. Taken together, CD111/Nectin-1/PVRL1 confined to adherens junctions in

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epithelial cells is not very accessible to virus, whereas dissociation of cell junctions releases nectin-1 to serve more efficiently as an entry receptor.

Molecular Mass 62.9 kDa

N-terminal Sequence Analysis Gln 31

Endotoxin < 1.0 EU per µg protein as determined by the LAL method.

Purity > 95 % as determined by SDS-PAGE.

Storage Samples are stable for up to twelve months from date of receipt at -70 centigrade. 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.

Storage Buffer Lyophilized from sterile PBS, pH 7.4.
1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are

GENE INFORMATION

Gene Name [Nectin1 nectin cell adhesion molecule 1 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Nectin1](#)

Synonyms Nectin1 nectin cell adhesion molecule 1; PRR; HlgR; HveC; PRR1; Cd111; Pvr11; AI835281; AW549174; nectin-1; nectin-1; herpes virus entry mediator C; herpesvirus entry mediator C; nectin-1 alpha; nectin-1 delta; poliovirus receptor-related protein 1

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Gene ID	58235
mRNA Refseq	NM_021424
Protein Refseq	NP_067399
UniProt ID	Q9JKF6

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