

## PVRL1/NECTIN1 Recombinant Protein | NECTIN1 recombinant protein

PVRL1/NECTIN1 Protein, Mouse, Recombinant (ECD, hFc Tag)

CATALOG #  
**AAA258247**

HOST  
**HEK293 Cells**

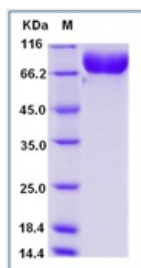
### PRODUCT SYNONYMS

PVRL1/NECTIN1; PVRL1/NECTIN1 Protein; Mouse; Recombinant (ECD; hFc Tag); Mouse NECTIN1 Protein (Fc Tag); Al835281 Protein; AW549174 Protein; Cd111 Protein; HlgR Protein; HveC Protein; nectin-1 Protein; PRR Protein; PRR1 Protein; Pvr1 Protein; poliovirus receptor-related 1 (herpesvirus entry mediator C); NECTIN1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                   |
| Purity/Purification     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                 |
| Form/Format             | Lyophilized from sterile PBS, pH7.4. 5% trehalose, 5% mannitol and 0.01% Tween80.                                                                                                                                                                              |
| Source                  | Mouse                                                                                                                                                                                                                                                          |
| Endotoxin               | <1.0EU per ug protein as determined by the LAL method.                                                                                                                                                                                                         |
| Predicted N Terminal    | Gln 31                                                                                                                                                                                                                                                         |
| Tag                     | Fc                                                                                                                                                                                                                                                             |
| Protein Construction    | A DNA sequence encoding the mouse NECTIN1 (NP_067399.2)(Met1-Ala354) was expressed with the Fc region of human IgG1 at the C-terminus.                                                                                                                         |
| Reconstitution          | It is recommended that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV.                                                                                                                   |
| Preparation and Storage | Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NECTIN1 recombinant protein | Background: 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 epithelial cells is not very accessible to virus, whereas dissociation of cell junctions releases nectin-1 to serve more efficiently as an entry receptor. |
| References                                                  | Yoon M, et al. (2002) Disruption of adherens junctions liberates nectin-1 to serve as receptor for herpes simplex virus and pseudorabies virus entry. J Virol. 76(14): 7203-8.Mata M, et al. (2001) HveC (nectin-1) is expressed at high levels in sensory neurons, but not in motor neurons, of the rat peripheral nervous system. J Neurovirol. 7(5): 476-80.Haarr L, et al. (2001) Transcription from the gene encoding the herpesvirus entry receptor nectin-1 (HveC) in nervous tissue of adult mouse. Virology. 287(2): 301-9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 40254534                                                                                                                                     |
| NCBI GeneID                      | 58235                                                                                                                                        |
| NCBI Accession #                 | NP_067399.2                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_021424.2                                                                                                                                  |
| UniProt Accession #              | Q9JKF6; Q6P9M9; Q9ERL5; Q9JI17                                                                                                               |
| Molecular Weight                 | The recombinant mouse NECTIN1 consists of 562 amino acids and predicts a molecular mass of 62.9 kDa.                                         |
| NCBI Official Full Name          | nectin-1                                                                                                                                     |
| NCBI Official Synonym Full Names | poliovirus receptor-related 1                                                                                                                |
| NCBI Official Symbol             | Pvrl1                                                                                                                                        |
| NCBI Official Synonym Symbols    | PRR; HlgR; HveC; PRR1; Cd111; AI835281; AW549174; nectin-1                                                                                   |
| NCBI Protein Information         | nectin-1; nectin-1 alpha; nectin-1 delta; herpesvirus entry mediator C; herpes virus entry mediator C; poliovirus receptor-related protein 1 |
| UniProt Protein Name             | Nectin-1                                                                                                                                     |
| UniProt Gene Name                | Pvrl1                                                                                                                                        |
| UniProt Synonym Gene Names       | Hvec; Prr1; Herpesvirus entry mediator C; HveC                                                                                               |
| UniProt Entry Name               | PVRL1_MOUSE                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.