

## Nectin 3 Active Protein | NECTIN3 active protein

Nectin 3 Protein, Human, Recombinant (His Tag)

CATALOG #  
**AAA257937**

HOST  
**HEK293 Cells**

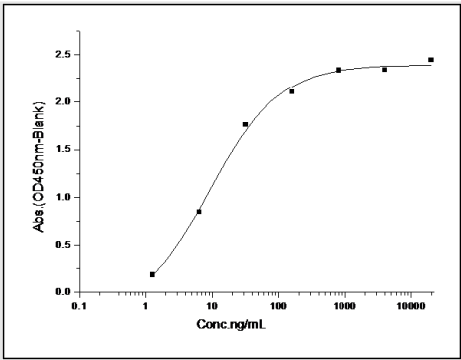
### PRODUCT SYNONYMS

Nectin 3; Nectin 3 Protein; Human; Recombinant (His Tag); Human CD113/Nectin-3/PVRL3 Protein (His Tag); CD113 Protein; CDw113 Protein; DKFZp566B0846 Protein; FLJ90624 Protein; nectin-3 Protein; PPR3 Protein; PRR3 Protein; PVRL3 Protein; PVRR3 Protein; poliovirus receptor-related 3; NECTIN3 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification     | >98% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format             | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.                                                                                                                                                                                                                                                                                               |
| Sequence                | Met1-Asp400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Activity                | <p>Measured by its binding ability in a functional ELISA.</p> <ol style="list-style-type: none"> <li>1. Immobilized recombinant human PVRL3 at 1ug/ml (100uL/well) can bind biotinylated Nectin-1 with a linear range of 6.4-800ng/mL.</li> <li>2. Immobilized recombinant human PVRL3 at 1ug/ml (100uL/well) can bind Nectin-1/ Fc chimera with a linear range of 0.156-5ng/mL.</li> </ol>                                                                                                                      |
| Endotoxin               | <1.0EU per ug of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Predicted N Terminal    | Gly 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tag                     | C-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protein Construction    | A DNA sequence encoding the extracellular domain of human PVRL3 (NP_056295.1)(Met 1-Asp 400) was expressed, with a polyhistidine tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                          |
| Reconstitution          | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage | <p>Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <p>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.</p> |

IMAGES



SDS-PAGE

**Application Data**  
Measured by its binding ability in a functional ELISA. 1. Immobilized recombinant human PVRL3 at 1 ug/ml (100 ul/well) can bind biotinylated Nectin-1 with a linear range of 6.4-800 ng/ml. 2. Immobilized recombinant human PVRL3 at 1 ug/ml (100 ul/well) can bind Nectin-1/Fc chimera with a linear range of 0.156-5 ng/ml.

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NECTIN3 active protein | Background: Poliovirus receptor-related 3 (PVRL3), also known as Nectin-3 and CD113, is a member of the nectin family. PVRL3/Nectin-3 is an 83kDa, type I transmembrane glycoprotein. Its precursor is 549 amino acids (aa) in length and contains an extended signal sequence of 57 aa, an extracellular domain (ECD) of 347 aa, a transmembrane segment of 21 aa, and a cytoplasmic region of 124 aa. Nectin-3 has three splicing variants, nectin-3alpha (biggest), -3beta (middle), and -3gamma (smallest). It is predominantly expressed in testis and placenta as well as in various cell lines, including epithelial cell lines. PVRL3/Nectin-3 plays a role in cell-cell adhesion through heterophilic trans-interactions with nectin-like proteins or nectins, such as trans-interaction with PVRL2/Nectin-2 at Sertoli-spermatid junctions. PVRL3/Nectin-3 is thus involved in the formation of cell-cell junctions, including adherens junctions and synapses. It has been shown to induce endocytosis-mediated down-regulation of PVR from the cell surface, resulting in the reduction of cell movement and proliferation. |
| References                                             | Satoh-Horikawa, et al. (2000). Nectin-3, a new member of immunoglobulin-like cell adhesion molecules that shows homophilic and heterophilic cell-cell adhesion activities. J Biol Chem (UNITED STATES). 275 (14): 10291-9.Reymond N, et al. (2000). Human nectin3/PRR3: a novel member of the PVR/PRR/nectin family that interacts with afadin. Gene (NETHERLANDS). 255 (2): 347-55.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI GI #                        | 11386199                                                  |
| NCBI GeneID                      | 25945                                                     |
| NCBI Accession #                 | NP_056295.1                                               |
| NCBI GenBank Nucleotide #        | NM_015480.2                                               |
| NCBI Official Full Name          | nectin-3 isoform 1                                        |
| NCBI Official Synonym Full Names | poliovirus receptor-related 3                             |
| NCBI Official Symbol             | PVRL3                                                     |
| NCBI Official Synonym Symbols    | PPR3; PRR3; CD113; PVRR3; CDW113; NECTIN-3                |
| NCBI Protein Information         | nectin-3; nectin 3; poliovirus receptor-related protein 3 |

**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.