

Nectin 3 Active Protein | NECTIN3 active protein

Nectin 3 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257937

HOST
HEK293 Cells

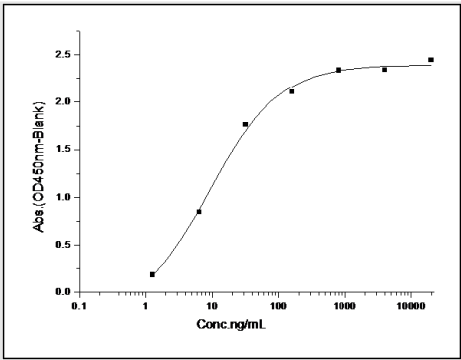
PRODUCT SYNONYMS

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	Measured by its binding ability in a functional ELISA. 1. Immobilized recombinant human PVRL3 at 1ug/ml (100uL/well) can bind biotinylated Nectin-1 with a linear range of 6.4-800ng/mL. 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.
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	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. 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.

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.