

Recombinant Human Nectin-3/PVRL3 Protein (His Tag)

Catalog Number: PKSH031388

Note: Centrifuge before opening to ensure complete recovery of vial contents.

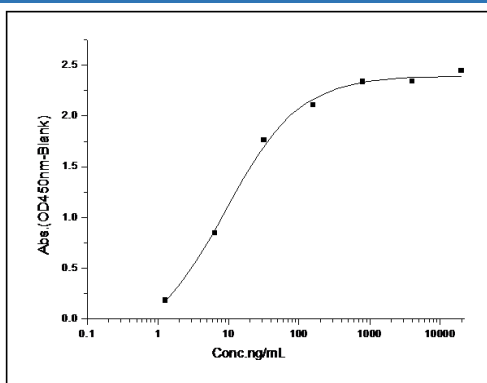
Description

Species	Human
Source	HEK293 Cells-derived Human Nectin-3/PVRL3 protein Met 1-Asp 400, with an C-terminal His
Calculated MW	39.3 kDa
Observed MW	65-75 kDa
Accession	NP_056295.1
Bio-activity	Immobilized recombinant human PVRL3 at 1 µg/ml (100 µl/well) can bind biotinylated Nectin-1 with a linear range of 6. 4-800 ng/ml. 2. Immobilized recombinant human PVRL3 at 1 µg/ml (100 µl/well) can bind Nectin-1/ Fc chimera with a linear range of 0.156-5 ng/ml.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Immobilized Human Nectin 3 His (Cat: PKSH031774) at 2 µg/mL (100 µL/well) can bind Human PVRL1/NECTIN1 hFc (Cat: PKSH031066), the EC₅₀ of Human PVRL1/NECTIN1 hFc (Cat: PKSH031066) is 3-24 ng/mL.

Background

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Poliovirus receptor-related 3 (PVRL3), also known as Nectin-3 and CD113, is a member of the nectin family. PVRL3/Nectin-3 is an 83 kDa, 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 reduction of cell movement and proliferation.

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Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017