

Recombinant Protein Technical Manual Recombinant Human Nectin-3/PVRL3 Protein (His Tag)(Active) **RPES0406**

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_056295.1

Molecular Mass:	39.3 kDa
AP Molecular Mass:	65-75 kDa
Tag:	C-His
Bio-activity:	Measured by its binding ability in a functional ELISA. Immobilized recombinant human PVRL3 at 1 μ g/ml (100 μ l/well) can bind biotinylated Nectin with a linear range of 6.4-800 ng/ml.2. Immobilized recombinant human PVRL3 at 1 μ g/ml (100 μ l/well) can bind Nectin/ Fc chimera with a linear range of 0.156-5 ng/ml.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	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
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Poliovirus Receptor-Related Protein 3; CDw113; Nectin-3; CD113; PVRL3; PRR3;PVRR3

Sequence: Met 1-Asp 400

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 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.