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PVRL1 Protein (AA 1-334) (His tag)



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Quantity:	100 μg
Target:	PVRL1
Protein Characteristics:	AA 1-334
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PVRL1 protein is labelled with His tag.

Product Details

Sequence:	Met1-Thr334	
Characteristics:	A DNA sequence encoding the Human PVRL1/NECTIN1/CD111 protein (Q15223) (Met1-Thr334) was expressed with a C-His.	
Purity:	> 95 % as determined by reducing SDS-PAGE.	

Target Details

Target:	PVRL1	
Alternative Name:	PVRL1 (PVRL1 Products)	
Background:	Abbreviation: PVRL1,NECTIN1,CD111	
	Target Synonym: Poliovirus Receptor-Related Protein 1, Herpes Virus Entry Mediator	
	C,Herpesvirus Entry Mediator C,HveC,Herpesvirus Ig-Like Receptor,HIgR,Nectin-	
	1,CD111,PVRL1,HVEC,PRR1,ED4,HIgR,HV1S,HVEC,nectin-1,OFC7,PRR,PVRR,PVRR1,SK-12	

Background: Nectin-1 is a type I transmembrane glycoprotein belonging to the Ig superfamily. Nectin-1 promotes cell-cell contacts by forming homophilic or heterophilic trans-dimers. Heterophilic interactions have been detected between Nectin-1 and Nectin-3 and between Nectin-1 and Nectin-4. Nectin ECDs contain three Ig like domains: an N terminal V type that mediates ligand binding, and two C2 type. Nectin-1 binds viral Glycoprotein D to mediate Herpesvirus (but not Poxvirus) entry into vaginal mucosa, sensory neurons and fibroblasts. In forming adherens junctions and synapses, Nectin-1 and Nectin-3 initiate cell-cell interactions, recruiting ανβ3 integrin extracellularly and cadherins intracellularly through afadin and other junctional proteins. These interactions organize the cytoskeleton, strengthen attachment to basement membrane and promote further cell-cell connections. Nectin-1 and Nectin-3 have been found to localize assymetrically along the chemical synapse, with Nectin-1 primarily on the axonal side and Nectin-3 on the dendritic side. Deficiency of Nectin-1 can result in cleft lip/palate ectodermal dysplasia. Nectin-1 downregulation in epithelial cancers is mediated in part by ectodomain shedding, but it may contribute to invasiveness.

Molecular Weight:

Calculated MW: 36.63 kDa

Observed MW: 45 kDa

UniProt:

Q15223

Pathways:

Cell-Cell Junction Organization

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.
Expiry Date:	12 months