

Datasheet for ABIN7505696

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



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### Overview

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 ( <a href="#">PVRL1 Products</a> )
Background:	<p>Abbreviation: PVRL1,NECTIN1,CD111</p> <p>Target Synonym: Poliovirus Receptor-Related Protein 1,Herpes Virus Entry Mediator C,Herpesvirus Entry Mediator C,HveC,Herpesvirus Ig-Like Receptor,HlgR,Nectin-1,CD111,PVRL1,HVEC,PRR1,ED4,HlgR,HV1S,HVEC,nectin-1,OFC7,PRR,PVRR,PVRR1,SK-12</p>

## Target Details

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  $\alpha\beta3$  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 assymmetrically 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