

## ARG70296 Human CD155 / Poliovirus Receptor recombinant protein (ECD) (Fc- His-tagged, C-ter)

Package: 100 µg

Store at: -20°C

### Summary

Product Description	HEK293 expressed, Fc-His-tagged (C-ter) Human CD155 / Poliovirus Receptor recombinant protein (ECD).
Tested Reactivity	Hu
Tested Application	Binding, SDS-PAGE
Target Name	CD155 / Poliovirus Receptor (ECD)
Species	Human
A.A. Sequence	Asp28 - Asn343 of Human CD155 / Poliovirus Receptor (NP_006496.4) with an Fc-6X His tag at the C-terminus.
Expression System	HEK293
Alternate Names	NECL5; CD antigen CD155; Nectin-like protein 5; PVS; Nect-5; HVED; Poliovirus receptor; TAGE4; NECL-5; CD155

### Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human TIGIT at 2 µg/ml (100 µl/well) can bind Recombinant Human CD155 with a linear range of 0.3-1 µg/ml.
------------------	---

### Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 97% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	PVR
Gene Full Name	poliovirus receptor
Background	The protein encoded by this gene is a transmembrane glycoprotein belonging to the immunoglobulin superfamily. The external domain mediates cell attachment to the extracellular matrix molecule vitronectin, while its intracellular domain interacts with the dynein light chain Tctex-1/DYNLT1. The gene is specific to the primate lineage, and serves as a cellular receptor for poliovirus in the first step of

poliovirus replication. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

## Function

Mediates NK cell adhesion and triggers NK cell effector functions. Binds two different NK cell receptors: CD96 and CD226. These interactions accumulates at the cell-cell contact site, leading to the formation of a mature immunological synapse between NK cell and target cell. This may trigger adhesion and secretion of lytic granules and IFN-gamma and activate cytotoxicity of activated NK cells. May also promote NK cell-target cell modular exchange, and PVR transfer to the NK cell. This transfer is more important in some tumor cells expressing a lot of PVR, and may trigger fratricide NK cell activation, providing tumors with a mechanism of immunoevasion. Plays a role in mediating tumor cell invasion and migration.

(Microbial infection) Acts as a receptor for poliovirus. May play a role in axonal transport of poliovirus, by targeting virion-PVR-containing endocytic vesicles to the microtubular network through interaction with DYNLT1. This interaction would drive the virus-containing vesicle to the axonal retrograde transport.

(Microbial infection) Acts as a receptor for Pseudorabies virus.

(Microbial infection) Is prevented to reach cell surface upon infection by Human cytomegalovirus /HHV-5, presumably to escape immune recognition of infected cell by NK cells. [UniProt]

## Calculated Mw

45 kDa

## PTM

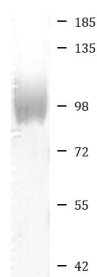
N-glycosylated. N-glycan at Asn-120: Hex5HexNAc4.

Phosphorylated by Src kinases on tyrosine residues in the ITIM motif upon ligation. Interaction with TIGIT is required for Phosphorylation. [UniProt]

## Cellular Localization

Isoform Alpha: Cell membrane; Single-pass type I membrane protein. Isoform Delta: Cell membrane; Single-pass type I membrane protein. Isoform Beta: Secreted. Isoform Gamma: Secreted. [UniProt]

## Images



Human CD155 / Poliovirus Receptor  
recombinant protein (ECD)  
(Fc-His-tagged, C-ter)

### ARG70296 Human CD155 / Poliovirus Receptor recombinant protein (ECD) (Fc-His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70296 Human CD155 / Poliovirus Receptor recombinant protein (ECD) (Fc-His-tagged, C-ter).