

ARG70296 Human CD155 / Poliovirus Receptor recombinant protein (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.
Tested Reactivity	Hu
Tested Application	Binding, SDS-PAGE
Target Name	CD155 / Poliovirus Receptor
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; Necl-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.
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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

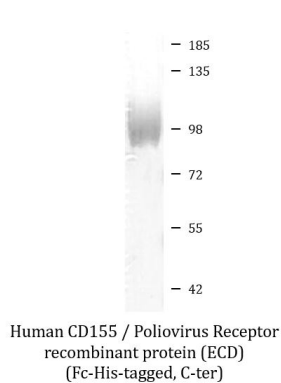
N-glycosylated. N-glycan at Asn-120: Hex5HexNAc4.

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



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).