

## Product datasheet

# Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) ab220561

[6 Images](#)

### Description

<b>Product name</b>	Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active)	
<b>Biological activity</b>	<p>Measured by its binding ability in a functional ELISA. Immobilized Human ab220561 at 10 µg/mL (100 µL/well) can bind Biotinylated Human TIGIT, His Tag with a linear range of 0.08-0.31 µg/mL.</p> <p>Serial dilutions of Human TIGIT Neutralizing antibody were added into ab220561: Biotinylated Human TIGIT, Fc,Avitag binding reactions. The half maximal inhibitory concentration (IC50) is 0.06065 µg/mL (Routinely tested).</p>	
<b>Purity</b>	> 95 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<b><u>P15151</u></b>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	<pre> WPPPGTGDVVVQAPTQVPGFLGDSVTLPCYLQVPNMEV THVSQLTWARHG ESGSMAVFHQQTGGPSYSESKRLEFVAARLGAELRNASLR MFGLRVEDEGN YTCLFVTFPQGSRSVDIWLRLAKPQNTAEVQKVQLTGEP VPMARCVSTG GRPPAQITWHSDLGGMPNTSQVPGFLSGTVTVTSLWLVP SSQVDGKNVT CKVEHESFEKPQLLTVNLTVYYPPEVSISGYDNNWYLGQN EATLTCDARS NPEPTGYNWSTTMGPLPPFAVAQGAQLLIRPVDKPIINTLI CNVTNALGA RQAELTVQVKEGPPSEHSGISRN           </pre>	
<b>Predicted molecular weight</b>	62 kDa including tags	
<b>Amino acids</b>	21 to 343	
<b>Tags</b>	Fc tag C-Terminus	

**Additional sequence information** This protein carries a human IgG1 Fc tag(Pro 100 - Lys 330) P01857 at the C-terminus. Extracellular domain (AAH15542).

## Specifications

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Our **Abpromise guarantee** covers the use of **ab220561** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA Flow Cytometry Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	This product was previously labelled as Poliovirus Receptor

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose, L-Arginine, Sodium chloride  Lyophilized from 0.22 µm filtered solution. 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%  This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

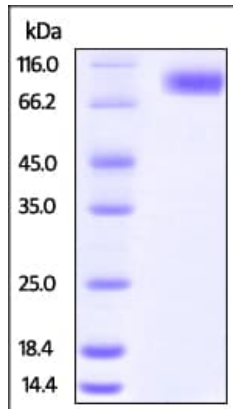
## General Info

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<b>Function</b>	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. Serves as a receptor for poliovirus attachment to target cells. 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.
<b>Sequence similarities</b>	Belongs to the nectin family. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
<b>Cellular localization</b>	Secreted and Cell membrane.

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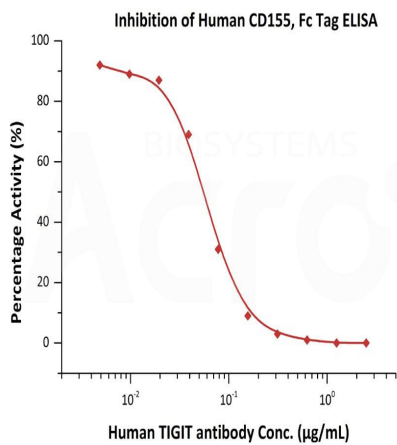
## Images



SDS-PAGE - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220561)

SDS-PAGE analysis of reduced ab220561 stained overnight with Coomassie Blue.

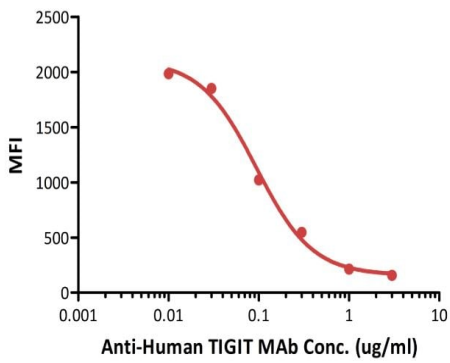
The protein migrates as 95-105 kDa on a SDS-PAGE gel under reducing conditions due to glycosylation.



Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220561)

Serial dilutions of Human TIGIT Neutralizing antibody were added into ab220561: Biotinylated Human TIGIT, Fc, Avitag binding reactions. The half maximal inhibitory concentration (IC<sub>50</sub>) is 0.06065 µg/mL (Routinely tested).

### Competitive experiment of neutralizing of Anti-Human TIGIT MAb

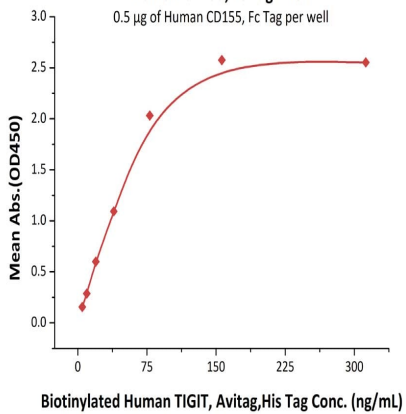


Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220561)

FACS analysis shows that the binding of Human CD155, Fc Tag to 293T overexpressing TIGIT was inhibited by increasing concentration of neutralizing Anti-Human TIGIT MAb. The concentration of CD155 used is 1 µg/ml. The IC50 is 0.09422 µg/ml.

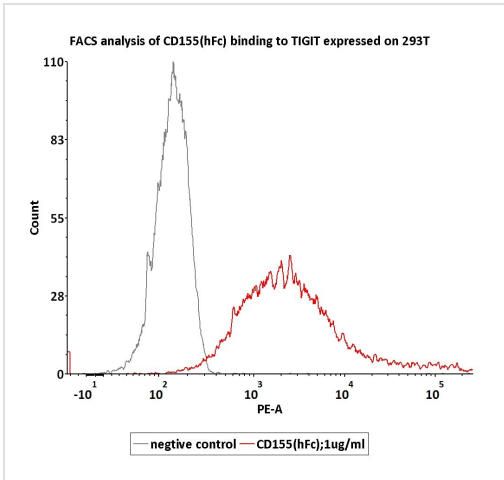
### Human CD155, Fc Tag ELISA

0.5 µg of Human CD155, Fc Tag per well



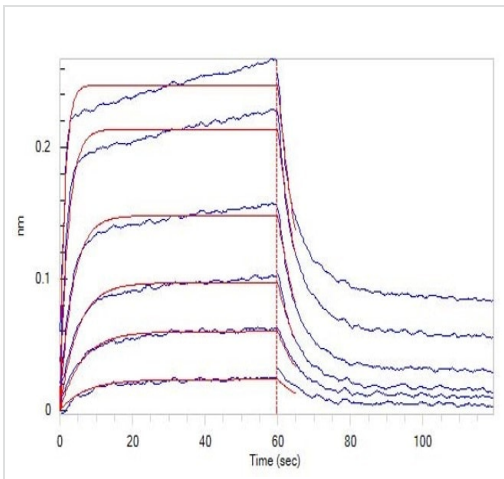
Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220561)

Immobilized Human CD155, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human TIGIT, His Tag with a linear range of 5-78 ng/mL.



FACS assay shows that recombinant Human CD155, Fc Tag can bind to 293T cell overexpressing human TIGIT. The concentration of CD155 is 1 µg/ml.

Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220561)



Loaded ab220561 on Protein A Biosensor, can bind Human TIGIT, His Tag with an affinity constant of 0.23 µM as determined in BLI assay (ForteBio Octet Red96e).

Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220561)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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