

Product datasheet

Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) ab220469

[5 Images](#)

Description

Product name	Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active)	
Biological activity	<p>Measured by its binding ability in a functional ELISA. Immobilized Human TIGIT, Fc Tag at 2 µg/ml (100 µl/well) can bind ab220469 with a linear range of 0.1-4 ng/ml.</p> <p>Measured by its binding ability in a functional ELISA. Immobilized Human DNAM-1, Fc Tag at 2 µg/ml (100 µl/well) can bind ab220469 with a linear range of 1-16 ng/ml.</p>	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 0.100 Eu/µg	
Expression system	HEK 293 cells	
Accession	<u>P15151</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<pre> WPPPGTGDVVVQAPTQVPGFLGDSVTLPCYLQVPNMEV THVSQLTWARHG ESGSMAVFHQTQGPSYSESKRLEFVAARLGAELRNASLR MFGLRVEDEGN YTCLFVTFPQGSRSVDIWLRLVLAQPNTAEVQKVQLTGEP VPMARCVSTG GRPPAQITWHSDLGGMPNTSQVPGFLSGTVTVTSLWILVP SSQVDGKNVT CKVEHESFEKPQLLTVNLTVYYPPEVSISGYDNNWYLGQN EATLTCDARS NPEPTGYNWSTTMGPLPPFAVAQGAQLLIRPVDKPIINTLI CNVTNALGA RQAELTVQVKEGPPSEHSGMSRN </pre>	
Predicted molecular weight	62 kDa including tags	
Amino acids	21 to 343	
Tags	Fc tag C-Terminus	
Additional sequence information	Extracellular domain fused with a mouse IgG2a Fc tag at the C-terminus (NP_006496.2).	

Specifications

Our **Abpromise guarantee** covers the use of **ab220469** in the following tested applications.

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

Applications Functional Studies

SDS-PAGE

Form Lyophilized

Additional notes This product was previously labelled as Poliovirus Receptor

After reconstitution this product is stable for 3 months at -80°C under sterile conditions.

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.

pH: 7.4

Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose, 0.44% L-Arginine, 0.87% Sodium chloride

Lyophilized from 0.22 µm filtered solution.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

General Info

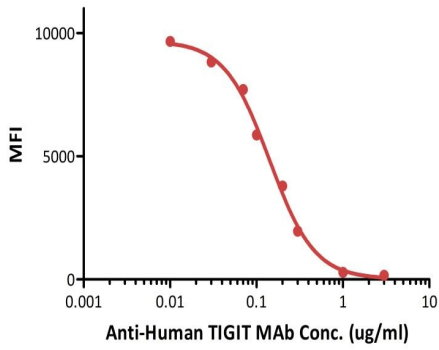
Function Mediates NK cell adhesion and triggers NK cell effector functions. Binds two different NK cell receptors: CD96 and CD226. These interactions accumulates at the cell-cell contact site, leading to the formation of a mature immunological synapse between NK cell and target cell. This may trigger 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. 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.

Sequence similarities Belongs to the nectin family.
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Cellular localization Secreted and Cell membrane.

Images

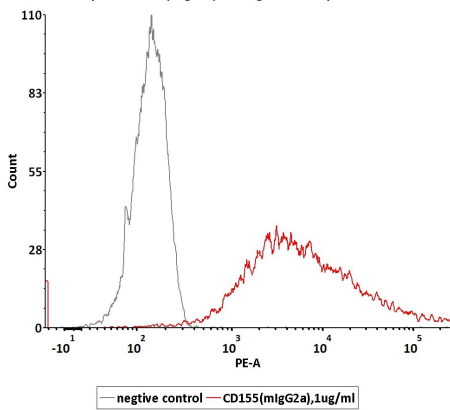
Competitive experiment of neutralizing of Anti-Human TIGIT MAb



Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220469)

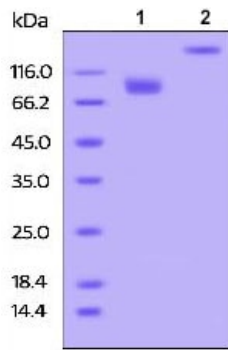
FACS analysis shows that the binding of Human CD155, mouse IgG2a Fc Tag to 293T overexpressing TIGIT was inhibited by increasing concentration of neutralizing Anti-Human TIGIT MAb. The concentration of CD155 used is 1 µg/ml. The IC50 is 0.1413 µg/ml.

FACS analysis of CD155(mIgG2a) binding to TIGIT expressed on 293T



Functional Studies - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220469)

FACS assay shows that recombinant Human CD155, mouse IgG2a Fc Tag can bind to 293T cell overexpressing human TIGIT. The concentration of CD155 is 1 µg/ml.



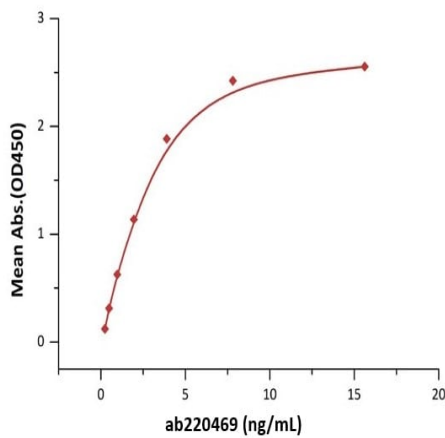
SDS-PAGE - Recombinant human Poliovirus Receptor/PVR protein (Fc Chimera Active) (ab220469)

SDS-PAGE analysis of ab220469 stained overnight with Coomassie Blue.

Lane 1: Reducing conditions.

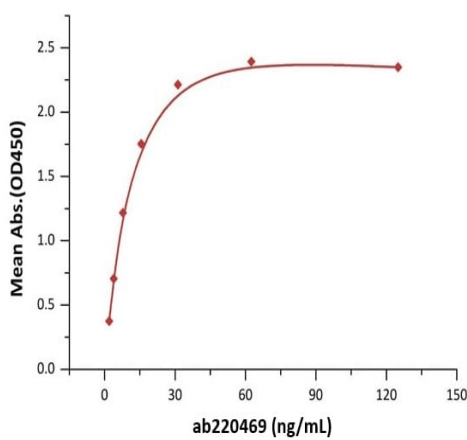
Lane 2: Non-reducing conditions.

The protein migrates as 70-100 kDa under reducing conditions and 130-160 kDa under non-reducing conditions on SDS-PAGE gel.



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Immobilized Human DNAM-1, Fc Tag at 2 µg/ml (100 µl/well) can bind ab220469 with a linear range of 1-16 ng/ml.

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

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