abcam

Product datasheet

Recombinant human TIGIT protein (Fc Chimera Active) ab223110

5 Images

Description

Product name	Recombinant human TIGIT protein (Fc Chimera Active)
Biological activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant human Poliovirus Receptor/PVR protein (**ab220561**) at 5 µg/mL (100 µL/well) can bind ab223110 with a linear range of 0.5-8 ng/mL. Measured by its binding ability in a BLI assay. Loaded ab223110 on Protein A Biosensor, can bind Recombinant human Poliovirus Receptor/PVR protein (**ab155723**) with an affinity constant of 0.92 µM as determined in BLI assay.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	**Q495A1**
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MMTGTIETTGNISAEKGGSIILQCHLSSTTAQVTQVNWEQQ DQLLAICNA DLGWHISPSFKDRVAPGPGLGLTLQSLTVNDTGEYFCIYHT YPDGTYTGR IFLEVLESSVAEHGARFQIP
Predicted molecular weight	40 kDa including tags
Amino acids	22 to 141
Tags	Fc tag C-Terminus
Additional sequence information	Topological domain fused with mouse IgG2a Fc tag at C-terminus.

Specifications

Our **Abpromise guarantee** covers the use of **ab223110** 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 Flow Cytometry ELISA
Form	Lyophilized
Additional notes	This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

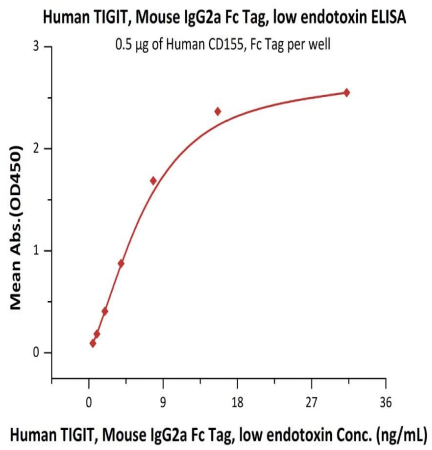
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon reconsitution add a carrier protein (0.1% BSA). Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section. pH: 7.40 Constituents: 10% Trehalose, 90% PBS 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

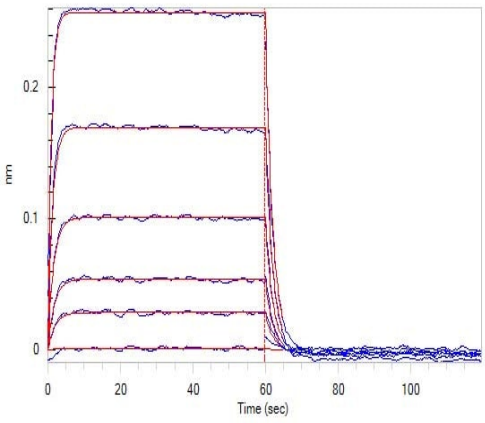
Function	Binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells.
Tissue specificity	Expressed at low levels on peripheral memory and regulatory CD4+ T cells and NK cells and is up-regulated following activation of these cells (at protein level).
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Domain	Contains 1 copy of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.
Cellular localization	Cell membrane.

Images



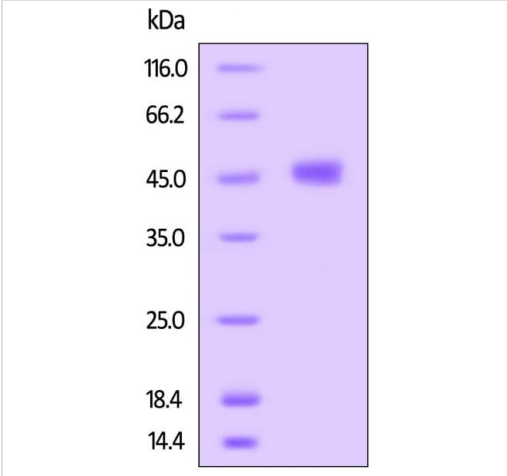
ELISA - Recombinant human TIGIT protein (Fc Chimera Active) (ab223110)

Immobilized Recombinant human Poliovirus Receptor/PVR protein (**ab220561**) at 5 µg/mL (100 µL/well) can bind ab223110 with a linear range of 0.5-8 ng/mL.



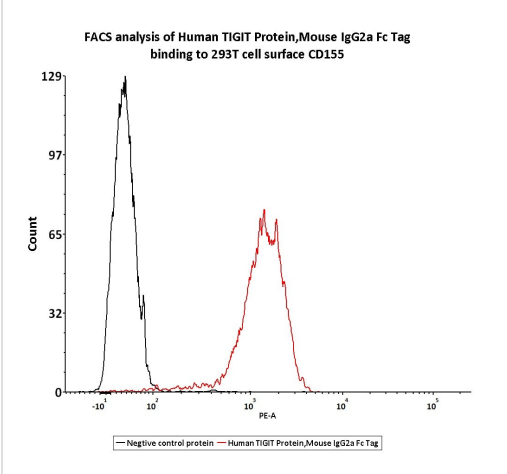
Functional Studies - Recombinant human TIGIT protein (Fc Chimera Active) (ab223110)

Loaded ab223110 on Protein A Biosensor, can bind Recombinant human Poliovirus Receptor/PVR protein (**ab155723**) with an affinity constant of 0.92 µM as determined in BLI assay.



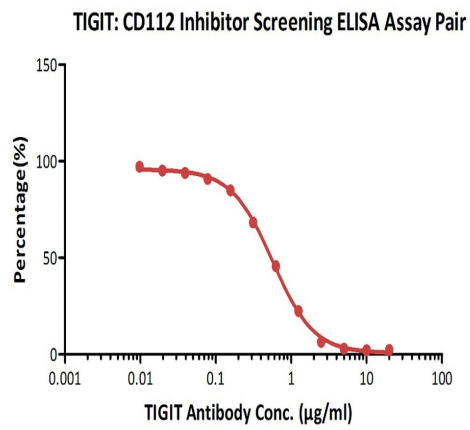
SDS-PAGE - Recombinant human TIGIT protein (Fc Chimera Active) (ab223110)

ab223110 analyzed by reduced SDS-PAGE and stained overnight with Coomassie Blue. The protein migrates as 42-50 kDa under reducing conditions due to glycosylation.



Functional Studies - Recombinant human TIGIT protein (Fc Chimera Active) (ab223110)

FACS assay shows that recombinant Human TIGIT Protein, Mouse IgG2a Fc Tag (ab223110) can bind to 293T cell overexpressing human CD155. The concentration of TIGIT used is 0.03 µg/ml



Functional Studies - Recombinant human TIGIT protein (Fc Chimera Active) (ab223110)

Serial dilutions of TIGIT antibody antibody (1:2 serial dilutions, from 20 µg/mL to 0.0097 µg/mL) were added into Human TIGIT (ab223110): Biotinylated Human CD112, Fc Tag (**ab246048**) binding reactions. Background was subtracted from data points before curve fitting.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors