

Product datasheet

Recombinant rat TIGIT protein (Fc Chimera Active)  
 ab224633

2 Images

Description

<b>Product name</b>	Recombinant rat TIGIT protein (Fc Chimera Active)	
<b>Biological activity</b>	Measured by its binding ability in a functional ELISA. Immobilized human Nectin-2, His Tag at 5 µg/ml (100 µl/well) can bind ab224633 with a linear range of 0.039-5 µg/ml.	
<b>Purity</b>	> 95 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">D3ZTQ2</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Rat	
<b>Sequence</b>	AFLAAGATAGTMETKGNISAEEGGSVVLQCHFSSDTA EVTQVNWEQRDQL LAVYSVDLGWYVPSVFSDRVVPGPSLGLTFQSLTTND TGEYFCYHTYPD GIYKGRIFLKVQESSVAHFQIA	
<b>Predicted molecular weight</b>	40 kDa including tags	
<b>Amino acids</b>	17 to 138	
<b>Additional sequence information</b>	Fused with a human IgG1 Fc tag at the C-terminus.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab224633** 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>	Functional Studies
	SDS-PAGE
<b>Form</b>	Lyophilised

Preparation and Storage

## Stability and Storage

Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.

pH: 7.50

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

It is recommended to reconstitute the lyophilized product with sterile deionized water to a final concentration of 1 mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

## 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.

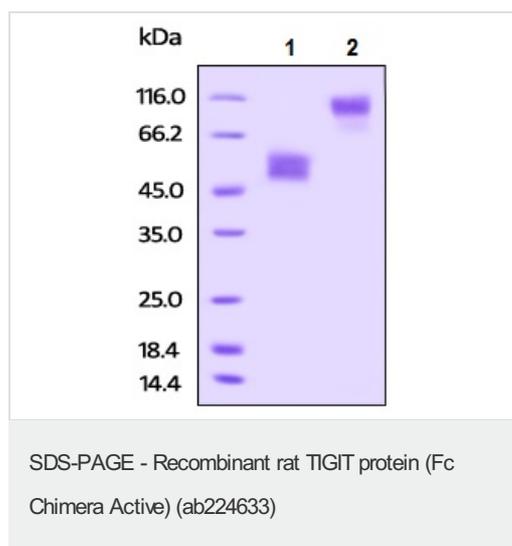
### Domain

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

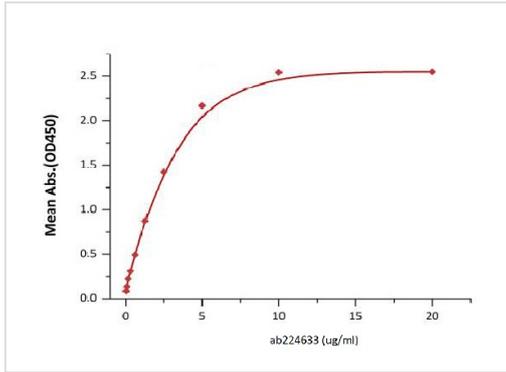


ab224633 analyzed by SDS-PAGE and stained overnight with Coomassie Blue.

Lane 1: Reducing conditions.

Lane 2: Non-reducing conditions.

As a result of glycosylation, the protein migrates as 48-55 kDa under reducing conditions, and 85-110 kDa under non-reducing conditions.



Immobilized human Nectin-2, His Tag at 5  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) can bind ab224633 with a linear range of 0.039-5  $\mu\text{g/ml}$ .

Functional Studies - Recombinant rat TIGIT protein  
(Fc Chimera Active) (ab224633)

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

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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.

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