

Datasheet for ABIN7320104

TIGIT Protein (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TIGIT
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TIGIT protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse TIGIT Protein (His Tag)(Active)
Sequence:	Met 1-Gly 141
Characteristics:	A DNA sequence encoding the extracellular domain of mouse TIGIT (NP_001139797.1) (Met 1-Gly 141) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Immobilized mouse TIGIT-His at 10 µg/ml (100 µl/well) can bind mouse PVR-Fch, The EC50 of mouse PVR-Fch is 0.31-0.73 µg/ml.

Target Details

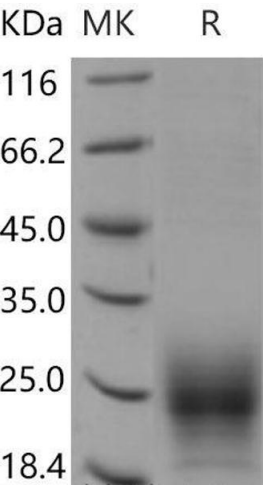
Target:	TIGIT
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Target Details

Alternative Name:	TIGIT (TIGIT Products)
Background:	<p>Background: TIGIT, also known as V-set and transmembrane domain-containing protein 3 (VSTM3) or V-set and immunoglobulin domain-containing protein 9 (VSIG9) is a new surface protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed on regulatory, memory, activated T cells and NK cells. It binds PVR with high affinity, and PVRL2 with lower affinity, but not PVRL3. Knockdown of TIGIT with siRNA in human memory T cells did not affect T cell responses, however, TIGIT inhibits NK cytotoxicity directly through its ITIM. TIGIT suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells. The binding of PVR to TIGIT on human dendritic cells enhanced the production of IL-10 and diminished the production of IL-12p40. In addition, TIGIT counter inhibits the NK-mediated killing of tumor cells and protects normal cells from NK-mediated cytotoxicity thus providing an "alternative self" mechanism for MHC class I inhibition.</p> <p>Immune Checkpoint Targets Co-inhibitory Immune Checkpoint Targets Immunotherapy Cancer Immunotherapy Targeted Therapy</p> <p>Synonym: T-cell immunoreceptor with Ig and ITIM domains;TIGIT;V-set and transmembrane domain-containing protein 3; VSTM3</p>
Molecular Weight:	14.2 kDa
NCBI Accession:	NP_001139797
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.