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## **TIGIT Protein (Fc Tag)**





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100 μg	
TIGIT	
Mouse	
HEK-293 Cells	
Recombinant	
Active	
Purification tag / Conjugate: This TIGIT protein is labelled with Fc Tag.	

#### **Product Details**

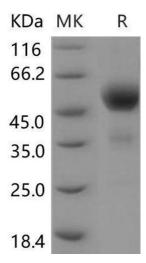
Purpose:	Recombinant Mouse TIGIT Protein (Fc Tag)(Active)
Sequence:	Met1-Gly141
Characteristics:	A DNA sequence encoding the mouse TIGIT (PP86176) (Met1-Gly141) was expressed, fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	$<$ 1.0 EU per $\mu g$ of the protein as determined by the LAL method.
Biological Activity Comment:	Immobilized mouse PVR-His at 10 $\mu$ g/ml (100 $\mu$ l/well) can bind mouse TIGIT-Fc, The EC50 of mouse TIGIT-Fc is 0.25-0.55 $\mu$ g/ml.

### Target Details

Target:	TIGIT

### **Target Details**

Alternative Name:	TIGIT (TIGIT Products)		
Background:	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 dendrition		
	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 ar		
	"alternative self" mechanism for MHC class I inhibition.Immune CheckpointImmune Checkpoin		
	Targets Co-inhibitory Immune Checkpoint Targets Immunotherapy Cancer		
	Immunotherapy Targeted Therapy		
	Synonym: T-cell immunoreceptor with Ig and ITIM domains;TIGIT;V-set and transmembrane		
	domain-containing protein 3; VSTM3		
Molecular Weight:	39.8 kDa		
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:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.		
	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.		



### **Western Blotting**

Image 1.