Active Recombinant Mouse TIGIT Homodimer Protein, Fc tagged

Cat. No. Tigit-59M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TIGIT protein dimer contains a TIGIT extracellular domain (UniProt# P86176) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.
Species	Mouse
Source	HEK293T
ProteinLength	29-148 aa
Description	TIGIT (T-cell immunoreceptor with Ig and ITIM domains) is also known as VSIG9 (V-set and immunoglobulin domain-containing protein 9) and VSTM3 (V-set and transmembrane domain-containing protein 3). TIGIT is a Type I membrane protein containing an immunoglobulin variable (Ig-V) domain, a transmembrane domain and cytoplasmic domain. TIGIT is an immune receptor present on peripheral memory and regulatory CD4+ T cells and natural killer (NK) cells. TIGIT is a pivotal immune checkpoint receptor that fine-tunes T-cell and NK-cell responses. Its dual role in promoting tolerance (via Tregs) and suppressing antitumor immunity makes it a compelling therapeutic target. TIGIT binds to CD155 (the poliovirus receptor, PVR) with high affinity and binds to CD112 (PVRL2) with lower affinity. Nectin-4 is also a ligand for TIGIT. While structurally and functionally similar to human TIGIT, mouse TIGIT is a species-specific tool essential for translational research in cancer immunotherapy.

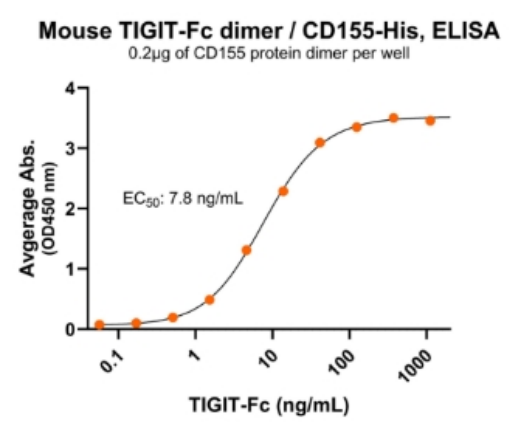
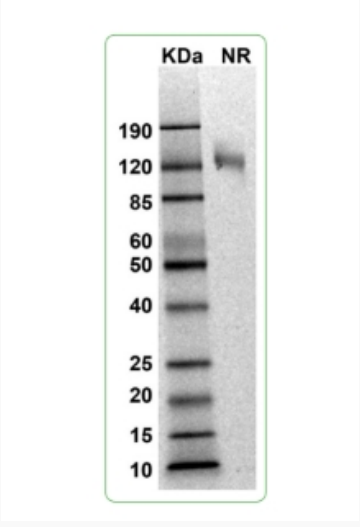
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Molecular Mass	79 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for TIGIT and CD155 ligand protein binding assays. SPR for TIGIT and CD155 ligand protein binding assays. Suggested Applications: BLI for TIGIT and Nectin-4 or CD155 protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	Tigit T cell immunoreceptor with Ig and ITIM domains [Mus musculus (house mouse)]
Official Symbol	Tigit
Synonyms	TIGIT; T cell immunoreceptor with Ig and ITIM domains; T-cell immunoreceptor with Ig and ITIM domains; V-set and transmembrane domain containing 3; V-set and transmembrane domain-containing protein 3; Vstm3; ENSMUSG00000071552;
Gene ID	100043314
mRNA Refseq	NM_001146325
Protein Refseq	NP_001139797

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UniProt ID	P86176
Bioactivity-Ligand Binding	 Immobilized mouse CD155 protein dimer, His Tag at 2 μg/mL (100 μL/well) can bind mouse TIGIT protein dimer, Fc Tag with half maximal effective concentration (EC50) range of 3.9-15.6 ng/mL (QC tested).
SDS-PAGE and WB	

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MW: Molecular Weight marker reduced condition NR: TIGIT dimer under non-reduced condition

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