Active Recombinant Rhesus Macaque TIGIT Homodimer Protein, His tagged

Cat. No. TIGIT-61R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TIGIT protein dimer contains a TIGIT extracellular domain (UniProt# A0A5F8AKQ5) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.
Species	Rhesus Macaque
Source	HEK293T
ProteinLength	22-142 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 anti-tumor 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, Rhesus macaque TIGIT is a species-specific tool essential for translational research in cancer immunotherapy.

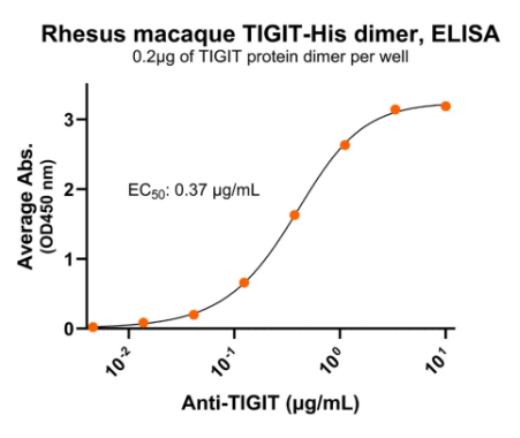
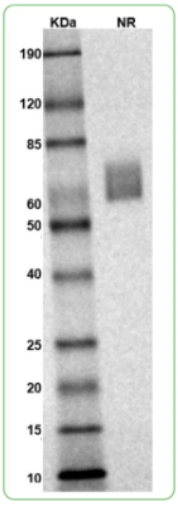
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Molecular Mass	43 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for TIGIT-specific antibody binding assays. SPR for TIGIT and PVR ligand protein binding assays. Suggested Applications: BLI and ELISA for TIGIT and PVR protein binding assays and BLI for TIGIT-specific antibody 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 [Macaca mulatta (Rhesus monkey)]
Official Symbol	TIGIT
Synonyms	TIGIT; T cell immunoreceptor with Ig and ITIM domains; T-cell immunoreceptor with Ig and ITIM domains; T-cell immunoreceptor with Ig and ITIM domain protein
Gene ID	710941
mRNA Refseq	XM_015129816
Protein Refseq	XP_014985302

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UniProt ID	A0A5F8AKQ5
Bioactivity-Antibody Binding	 Immobilized Rhesus macaque TIGIT protein dimer, His Tag at 2 μg/mL (100 μL/well) can bind anti-human TIGIT monoclonal antibody with half maximal effective concentration (EC50) range of 0.2-0.7 μg/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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