

# Active Recombinant Human TIGIT Homodimer Protein, His tagged

Cat. No. TIGIT-60H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	TIGIT protein dimer contains a TIGIT extracellular domain (UniProt# Q495A1) with a His tag at the C-terminus was expressed in HEK293T.
<b>Species</b>	Human
<b>Source</b>	HEK293T
<b>ProteinLength</b>	22-141 aa
<b>Description</b>	Human 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 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.
<b>Molecular Mass</b>	42 kDa
<b>Purity</b>	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
<b>Application</b>	Verified Applications: ELISA for TIGIT-specific antibody and Nectin-4 ligand protein

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binding assays. Suggested Applications: ELISA for TIGIT-specific antibody, Nectin-4 ligand protein, and CD155 receptor protein binding assays. SPR & BLI for TIGIT-specific antibody, Nectin-4 ligand protein, and CD155 receptor 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 [ Homo sapiens (human) ]

**Official Symbol** TIGIT

**Synonyms** TIGIT; T cell immunoreceptor with Ig and ITIM domains; V set and immunoglobulin domain containing 9, V set and transmembrane domain containing 3, VSIG9, VSTM3; T-cell immunoreceptor with Ig and ITIM domains; DKFZp667A205; FLJ39873; V-set and transmembrane domain containing 3; V-set and immunoglobulin domain containing 9; Washington University cell adhesion molecule; V-set and transmembrane domain-containing protein 3; V-set and immunoglobulin domain-containing protein 9; VSIG9; VSTM3; WUCAM;

**Gene ID** 201633

**mRNA Refseq** NM\_173799

**Protein Refseq** NP\_776160

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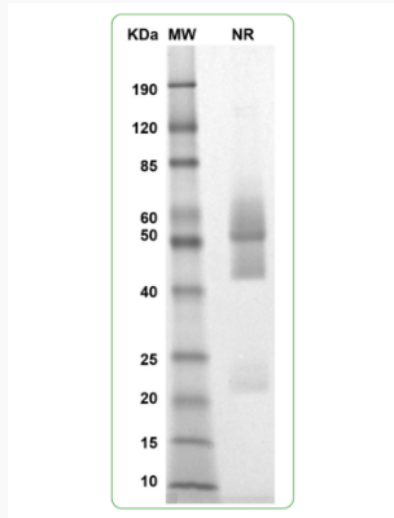
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**MIM** 612859

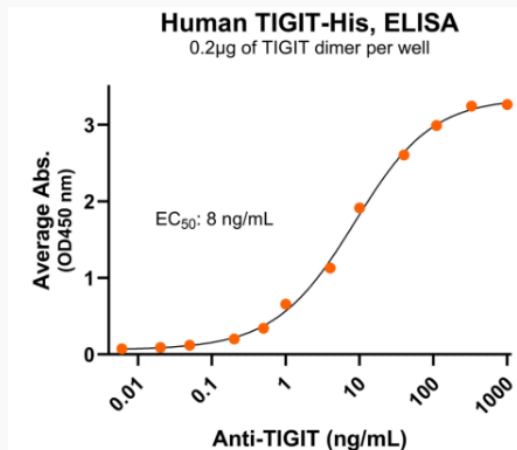
**UniProt ID** Q495A1

**SDS-PAGE and WB**



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

**Bioactivity-Antibody Binding**




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Immobilized TIGIT-His dimer protein at 2  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind anti-human TIGIT monoclonal antibody with half maximal effective concentration (EC50) range of 4.1-16.6  $\text{ng/mL}$  (QC tested).

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