

Active Recombinant Human TIGIT Homodimer Protein, His&Avi tagged

Cat. No. TIGIT-62H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TIGIT dimer protein (TIGIT protein dimer) contains a TIGIT extracellular domain (UniProt# Q495A1) with a tandem His-Avi tag at the C-terminus was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	22-141 aa
Description	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 1 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. TIGIT's action is highly dependent on its dimerization at the cell surface. TIGIT plays a role in immune suppression and is a therapeutic target for diseases where immune modulation is critical, including cancer and autoimmune diseases.
Molecular Mass	60 kDa

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Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for TIGIT-specific antibody, Nectin-4 ligand protein, and CD155 ligand protein binding assays. Suggested Applications: 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

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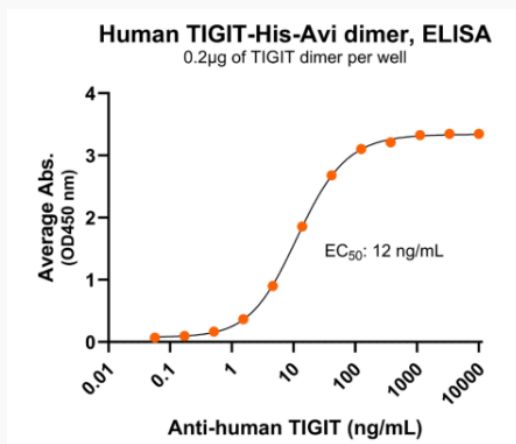
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Protein Refseq NP_776160

MIM 612859

UniProt ID Q495A1

Bioactivity-Antibody Binding



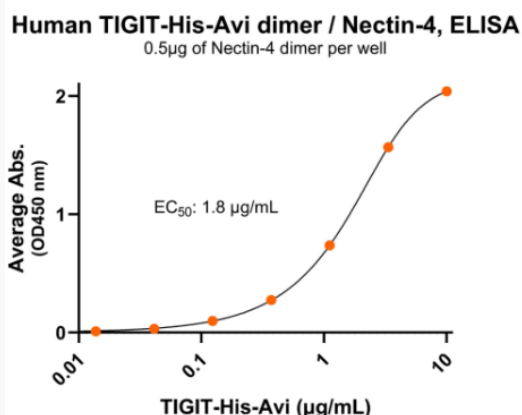
Immobilized TIGIT-His-Avi dimer protein at 2 µg/mL (100 µL/well) can bind anti-human TIGIT monoclonal antibody with half maximal effective concentration (EC₅₀) range of 6.2-24.8 ng/mL (QC tested).

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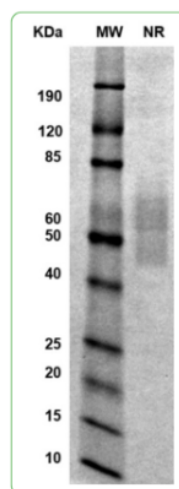
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Bioactivity-Ligand Binding



Immobilized human Nectin-4 dimer protein at 5 µg/mL (100 µL/well) can bind TIGIT-His-Avi dimer protein with half maximal effective concentration (EC₅₀) range of 0.88-3.53 µg/mL (QC tested).

SDS-PAGE and WB



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

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