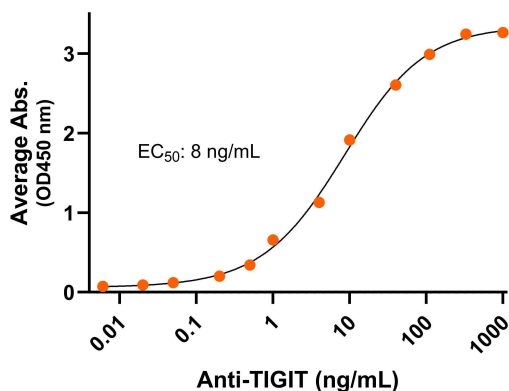


## Bioactivity – Antibody Binding

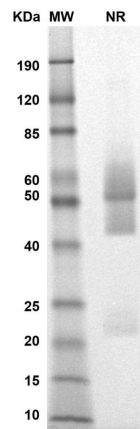
### Human TIGIT-His, ELISA

0.2µg of TIGIT dimer per well



Immobilized TIGIT-His dimer protein (Cat. No. CSP-24028-01) at 2 µg/mL (100 µL/well) can bind anti-human TIGIT monoclonal antibody with half maximal effective concentration (EC<sub>50</sub>) range of 4.1-16.6 ng/mL (QC tested).

## SDS-PAGE



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

The migration range of the dimer under non-reducing conditions is 40-70 kDa on SDS PAGE.



Human TIGIT Dimer, His Tag  
Product Code: CSP-24028-01  
For Research Use Only (RUO)

**Expression Host**  
HEK293T

**Purity**  
Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

**Protein Construct**  
TIGIT protein dimer contains a TIGIT extracellular domain (UniProt# Q495A1) with a His tag at the C-terminus. Expressed in HEK293T cell line.

**SDS-Page Molecular Weight**  
42 kDa. The migration range of the dimer under non-reducing conditions is 40-70 kDa on SDS PAGE.

**Shipping Conditions**  
Frozen Dry Ice

**Protein Name**  
Human TIGIT

**Alternate Name(s)**  
VSIG9, VSTM3

**Amino Acid Range**  
M22-P141

**Formulation**  
0.22µm filtered PBS, pH 7.4

**Stability & Storage**  
-80°C

## Background

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.