

Recombinant Mouse TIGIT Protein

Catalog No.: RP01516LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	100043314	P86176

Tags

C-mFc

Synonyms

TIGIT;VSIG9;VSTM3;TIGIT;TIGIT;VSIG9;VSTM3;TIGIT

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
38.32 kDa	45-60 kDa

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

TIGIT, also known as V-set and transmembrane domain-containing protein 3 (VSTM3) or V-set and immunoglobulin domain-containing protein 9 (VSIG9) is a new surface protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed on regulatory, memory, activated T cells and NK cells. It binds PVR with high affinity, and PVRL2 with lower affinity, but not PVRL3. Knockdown of TIGIT with siRNA in human memory T cells did not affect T cell responses, however, TIGIT inhibits NK cytotoxicity directly through its ITIM. TIGIT suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells. The binding of PVR to TIGIT on human dendritic cells enhanced the production of IL-1 and diminished the production of IL-12p4. Also, TIGIT counter inhibits the NK-mediated killing of tumor cells and protects normal cells from NK-mediated cytotoxicity thus providing an "alternative self" mechanism for MHC class I inhibition.

Basic Information

Description

Recombinant Human TIGIT Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly26-Gly141) of human TIGIT (Accession #NP_001139797.1) fused with a mFc tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CD155 at 2 μg/mL (100 μL/well) can bind Mouse TIGIT with a linear range of 2-9 ng/mL.

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

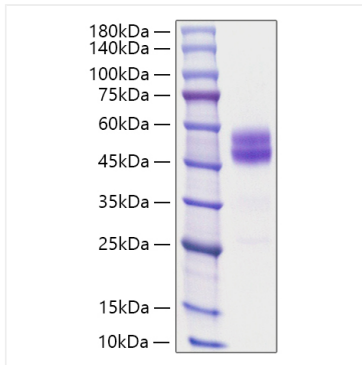
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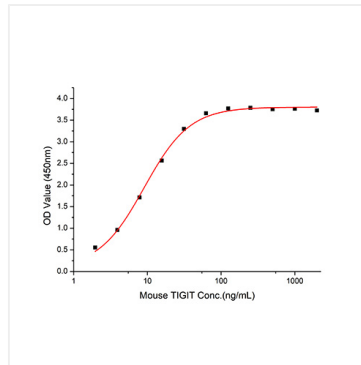
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Validation Data



Recombinant Mouse TIGIT Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-50 kDa.



Immobilized Recombinant Mouse CD155 at 2 $\mu\text{g/mL}$ (100 μL /well) can bind Mouse TIGIT with a linear range of 2-9 ng/mL.