

Recombinant Mouse TIGIT Protein

Catalog No.: RP01517LQ

Sequence Information

Species **Gene ID**
Mouse 100043314

Swiss Prot **Tags**
P86176 C-mFc&His

Synonyms

TIGIT, VSIG9, VSTM3, TIGIT, TIGIT, VSIG9, VSTM3, TIGIT

Product Information

Source **Purification**
HEK293 cells ≥ 90% as determined by SDS-PAGE.

Calculated MW **Observed MW**
39.15 kDa 45–60 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

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, 6×His tag at the C-terminus.

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 2–50 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –70°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

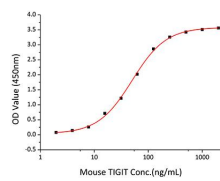
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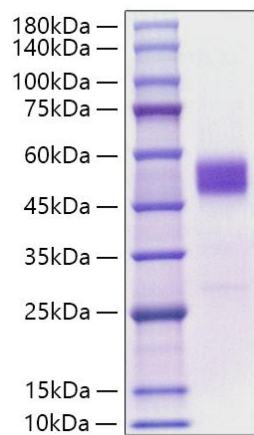
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Validation Data



Immobilized Recombinant Mouse CD155 at 2 µg/mL (100 µL/well) can bind Mouse TIGIT with a linear range of 2-50 ng/mL.



Recombinant Mouse TIGIT Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.