

37-1194: Mouse TIGIT / VSTM3 Recombinant Protein (Fc Tag)(Discontinued)

Reactivity : Mouse

Alternative Name : ENSMUSG00000071552 Protein, Mouse; Vstm3 Protein, Mouse

Description

Source : HEK293 Cells

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. In addition, 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. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Immune Checkpoint Targets Immunotherapy Targeted Therapy

Product Info

Amount : Mouse TIGIT / VSTM3 Recombinant Protein (Fc Tag)(Discontinued) / 100 µg

Purification : > 90 % as determined by SDS-PAGE

Content : Formulation Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Storage condition : Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid : Met1-Gly141

Application Note

Immobilized mouse PVR-His at 10 µg/ml (100 µL/well) can bind mouse TIGIT-Fc, The EC₅₀ of mouse TIGIT-Fc is 0.25-0.55 µg/ml.

Endotoxin : < 1.0 EU per µg of the protein as determined by the LAL method

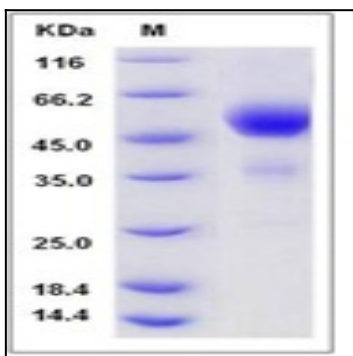


Fig 1: Mouse TIGIT / VSTM3 Recombinant Protein (Fc Tag)