

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

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

Formulation Lyophilized from sterile PBS, pH 7.4

Content: 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 $\tilde{A} \square \hat{A} \mu g/ml$ (100 $\tilde{A} \square \hat{A} \mu L/well$) can bind mouse TIGIT-Fc, The EC50 of mouse TIGIT-Fc is 0.25-0.55 $\tilde{A} \square \hat{A} \mu g/ml$.

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

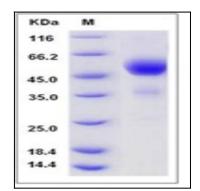


Fig 1: Mouse TIGIT / VSTM3 Recombinant Protein (Fc Tag)