

RPCB1049

Product Information

Product SKU:	RPCB1049	Gene ID:	100043314	Size:	10µg
Tag:	C-mFc&His	Reactivity:	Mouse		

Additional Information

Expression Host:	HEK293 cells	Swissprot:	P86176
Purity:	-		

Protein Information

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.
Protein Description:	High quality, high purity and low endotoxin recombinant Recombinant Mouse TIGIT Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.
Endotoxin:	<0.1EU/µg
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage:

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ 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.