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32-13474: TIGIT Human

Alternative Name : VSIG9, VSTM3, WUCAM, V-set and immunoglobulin domain-containing protein 9, V-set and transmembrane domain-containing protein 3.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered colorless solution.
T cell immunoreceptor with Ig and ITIM domains or TIGIT, is an immune receptor located on part of T cells and Natural Killer Cells(NK). TIGIT is also known as Vstm3 and WUCAM. The receptor can bind with high affinity to dendritic cells(DCs), CD155(PVR) on macrophages, etc., and it can bind with lower affinity to CD112(PVRL2). TIGIT can inhibit the cytotoxicity of Natural Killer Cells through its ITIM domain via antibodies against the interaction with PVR and the activity is directed. It has been show on research that TIGIT-Fc fusion molecule can have interaction with PVR on dendritic cells and elevate its IL-10 secretion level or lower the secretion on IL-12 under the stimulation of LPS, moreover, it can inhibit the activation of T cell in vivo.
TIGIT produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 359 amino acids (22-141a.a.) and having a molecular mass of 40.0kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa).TIGIT is expressed with a 239 amino acid hIgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	TIGIT protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MMTGTIETTG NISAEKGGSI ILQCHLSSTT AQVTQVNWEQ QDQLLAICNA DLGWHISPSF KDRVAPGPGL GLTLQSLTVN DTGEYFCIYH TYPDGTYTGR IFLEVLESSV AEHGARFQIP LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVKÂ FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSLS PGKHHHHHH.

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