Recombinant Rat TIGIT protein, Fc-tagged

Cat. No. TIGIT-205R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat TIGIT protein (Ala17-Ala138), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Rat
Source	HEK293
ProteinLength	122
Description	T-cell immunoreceptor with Ig and ITIM domains (TIGIT) is also known as V-set and immunoglobulin domain-containing protein 9 (VSIG9), V-set and transmembrane domain-containing protein 3 (VSTM3),which belongs to single-pass type I membrane protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed at low levels on peripheral memory and regulatory CD4+ T-cells and NK cells and is up-regulated following activation of these cells (at protein level). TIGIT binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 40 kDa. As a result of glycosylation, the protein migrates as 48-55 kDa under reducing (R) condition, and 85-110 kDa under non-

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	reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TIGIT
Official Symbol	TIGIT
Synonyms	TIGIT; T cell immunoreceptor with Ig and ITIM domains; RGD1563191
Gene ID	363784
mRNA Refseq	XM_017598162.1
Protein Refseq	XP_017453651.1
UniProt ID	D3ZTQ2

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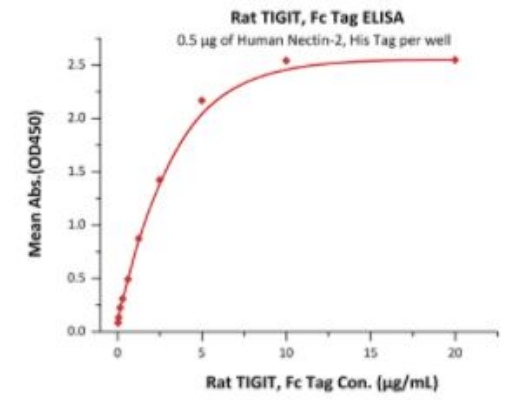
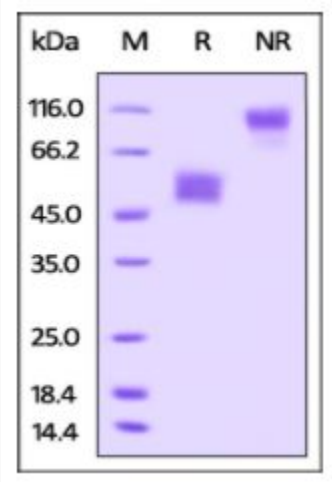
Bioactivity-ELISA of TIGIT-205R	 Immobilized Human Nectin-2, His Tag at 5 μg/mL (100 μL/well) can bind Rat TIGIT, Fc Tag with a linear range of 0.039-5 μg/mL (QC tested).
SDS-PAGE of TIGIT-205R	 Rat TIGIT, Fc Tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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