

Human TIGIT Protein, Ultra Low Endotoxin



Cat. No. TIG-HM110-UL

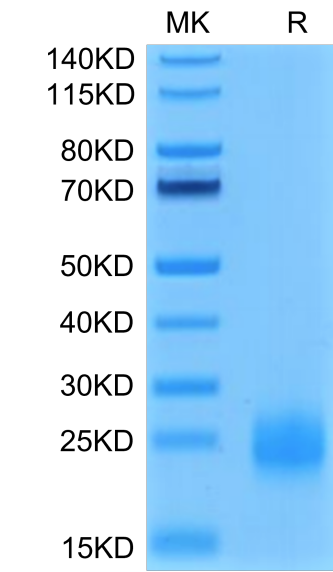
Description	
Source	Recombinant Human TIGIT Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Met22-Pro141.
Accession	Q495A1-1
Molecular Weight	The protein has a predicted MW of 14 kDa. Due to glycosylation, the protein migrates to 20-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
TIGIT, also called Vstm3, Vsig9, and WUCAM, is a transmembrane protein in the CD28 family of the Ig superfamily proteins. IGIT 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.	

Assay Data

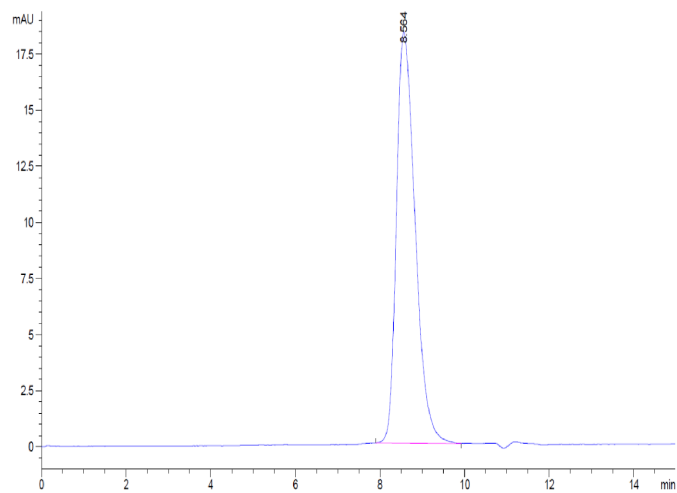
Bis-Tris PAGE



Human TIGIT on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

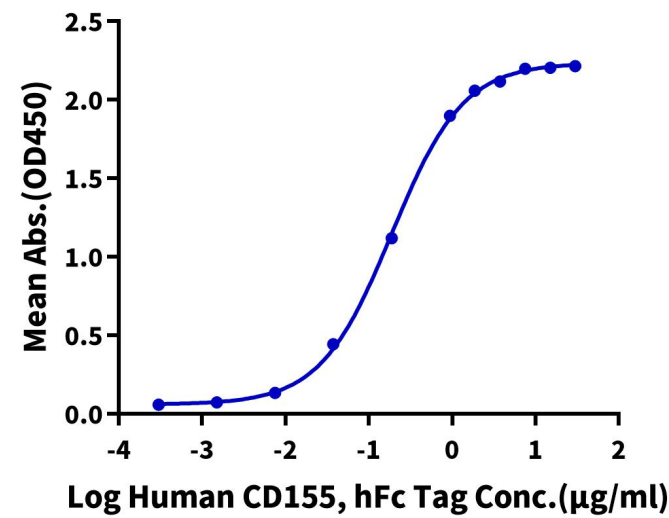
Assay Data



The purity of Human TIGIT is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human TIGIT, His Tag ELISA
0.1µg Human TIGIT, His Tag Per Well

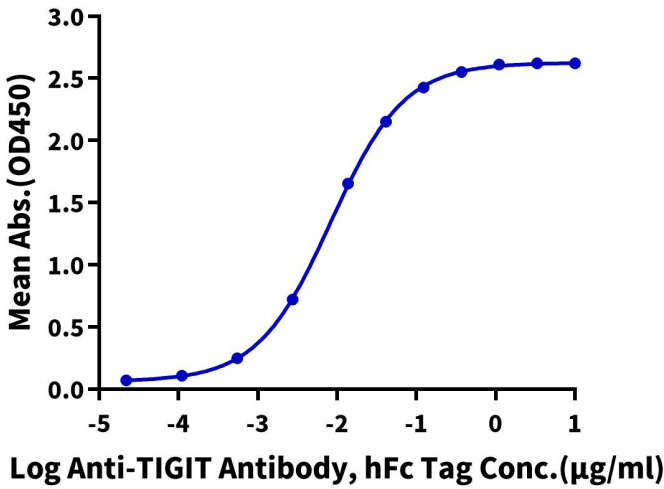


Immobilized Human TIGIT, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD155, hFc Tag with the EC50 of 0.19µg/ml determined by ELISA (QC Test).

ELISA Data

Assay Data

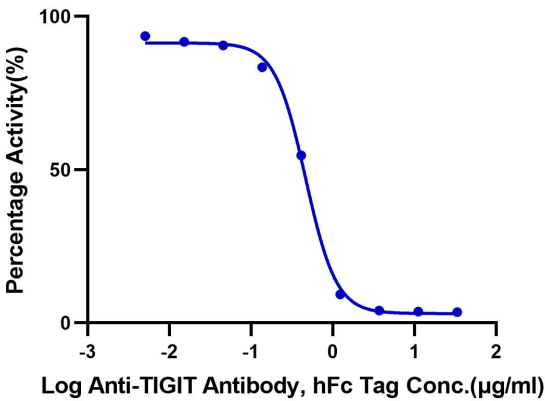
Human TIGIT, His Tag ELISA
0.05µg Human TIGIT, His Tag Per Well



Immobilized Human TIGIT, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-TIGIT Antibody, hFc Tag with the EC50 of 8.3ng/ml determined by ELISA.

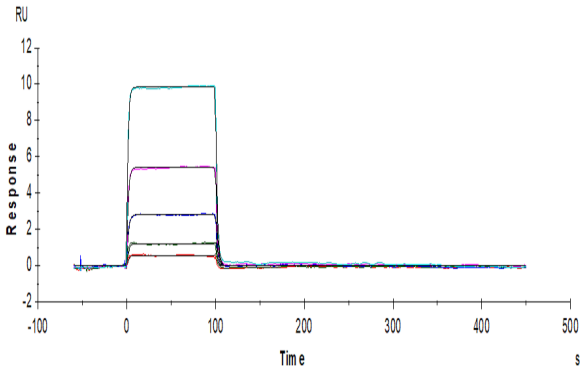
Blocking Data

Inhibition of Human TIGIT and CD155 Binding
0.2µg Human TIGIT, His Tag Per Well



Serial dilutions of Anti-TIGIT Antibody were added into Human TIGIT, His Tag : Biotinylated CD155, hFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 0.46µg/ml.

SPR Data



Human CD155, hFc Tag captured on Protein A chip, can bind Human TIGIT, His Tag with an affinity constant of 0.17µM as determined in a SPR assay (Biacore T200).