

Human TIGIT Protein

Cat. No. TIG-HM110



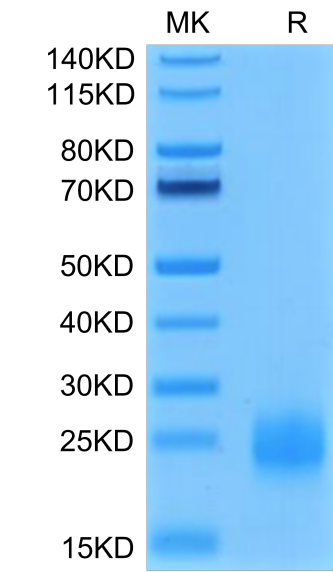
| Description      |                                                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human TIGIT Protein is expressed from HEK293 with His tag at the C-Terminus.<br>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 1 EU per µg by the LAL method.                                                                                         |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 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

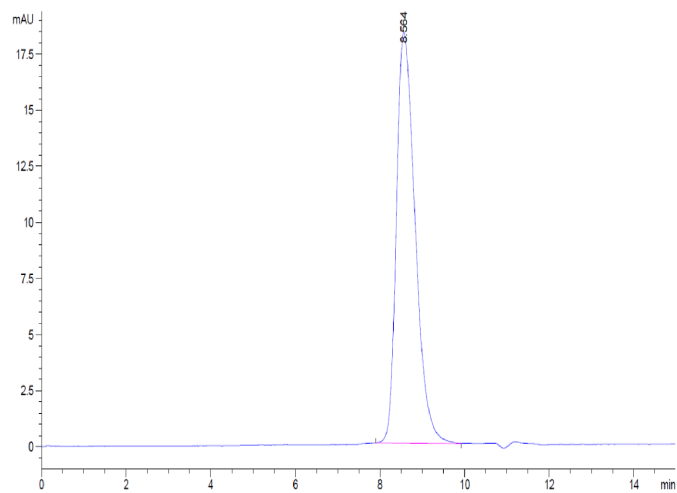
Bis-Tris PAGE



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

SEC-HPLC

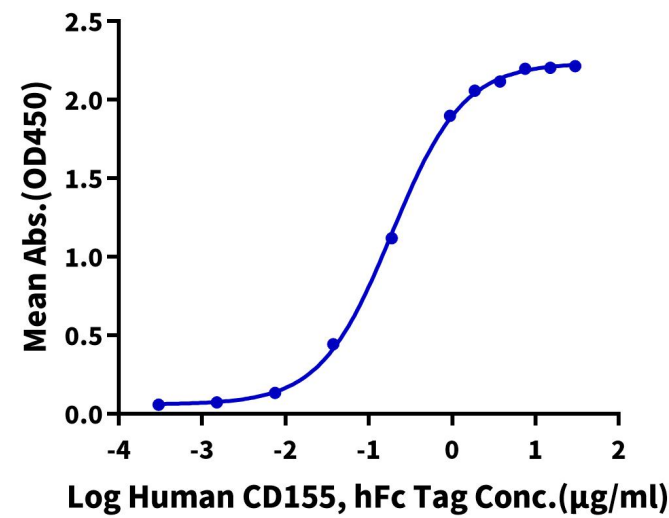
Assay Data



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

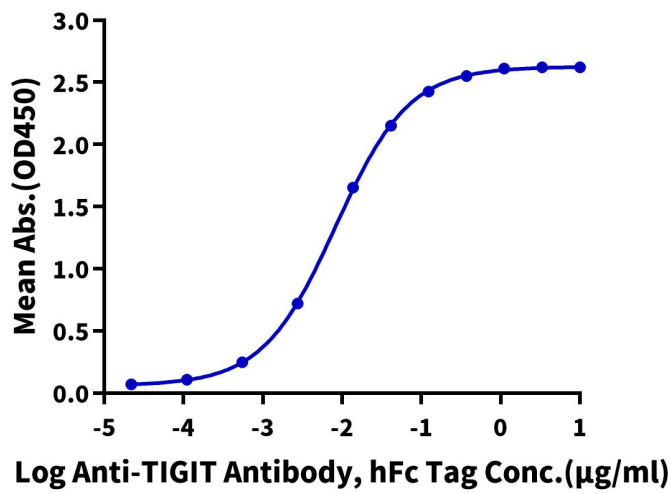


Immobilized Human TIGIT, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD155, hFc Tag with the EC50 of 0.19µg/ml determined by ELISA (QC Test).

ELISA Data

Assay Data

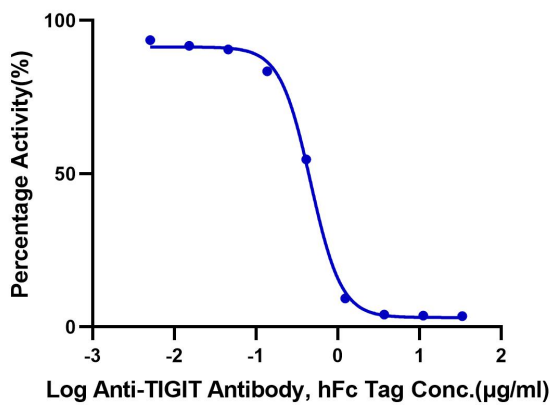
Human TIGIT, His Tag ELISA  
0.05µg Human TIGIT, His Tag Per Well



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.

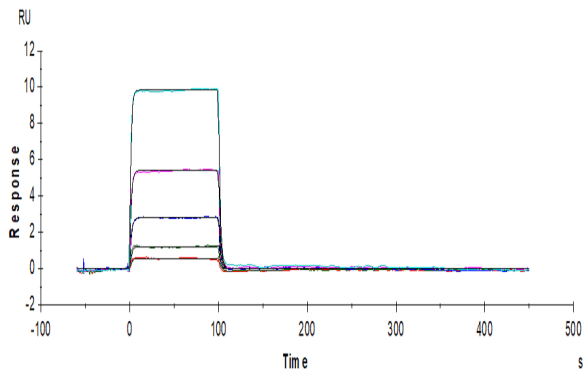
Blocking Data

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).