#### **Human TIGIT Protein**

#### Cat. No. TIG-HM110



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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

#### Formulation and Storage

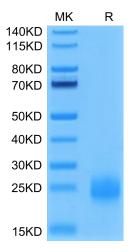
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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.

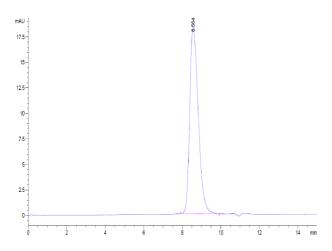
## **Assay Data**

#### Tris-Bis PAGE



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

### SEC-HPLC



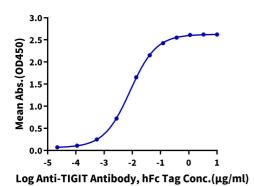
The purity of Human TIGIT is greater than 95% as determined by SEC-HPLC.

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#### **Assay Data**

#### **ELISA Data**

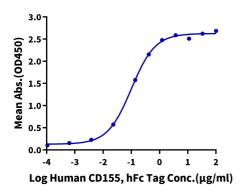
#### Human TIGIT, His Tag ELISA 0.05μg Human TIGIT, His Tag Per Well



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 (QC Test).

#### **ELISA Data**

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

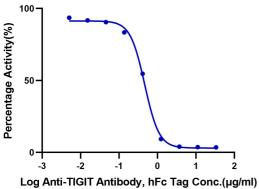


Immobilized Human TIGIT, His Tag at  $0.5\mu g/ml$  (100 $\mu l/Well$ ) on the plate. Dose response curve for Human CD155, hFc Tag with the EC50 of  $0.1\mu g/ml$  determined by ELISA.

#### **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 inhibitiory concentration (IC50) is 0.46µg/ml.

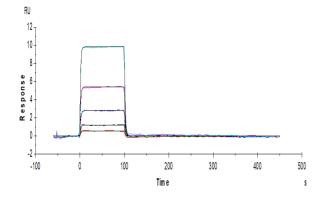
**SPR Data** 

# **Human TIGIT Protein**

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# **Assay Data**



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