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Datasheet for ABIN6951013

## TIGIT Protein (AA 22-141) (Fc Tag)

### 3 Images

#### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 100 µg                                      |
| Target:                       | TIGIT                                       |
| Protein Characteristics:      | AA 22-141                                   |
| Origin:                       | Human                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Biological Activity:          | Active                                      |
| Purification tag / Conjugate: | This TIGIT protein is labelled with Fc Tag. |

#### Product Details

|                  |  |
|------------------|--|
| Sequence:        | AA 22-141  |
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 39.7 kDa. The protein migrates as 40-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity:          | >95 % as determined by SDS-PAGE.   |
| Sterility:       | 0.22 µm filtered   |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method.   |

#### Target Details

|         |       |
|---------|-------|
| Target: | TIGIT |
|---------|-------|

## Target Details

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Alternative Name: [TIGIT \(TIGIT Products\)](#)

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Background: 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.

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Molecular Weight: 39.7 kDa

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NCBI Accession: [NP\\_776160](#)

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Pathways: [Cancer Immune Checkpoints](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Buffer: 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 10 mM NaCl, pH 7.5

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Handling Advice: Please avoid repeated freeze-thaw cycles.

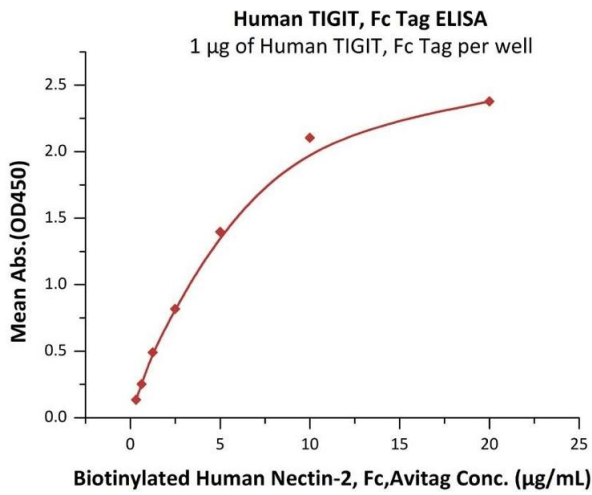
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Storage: -20 °C

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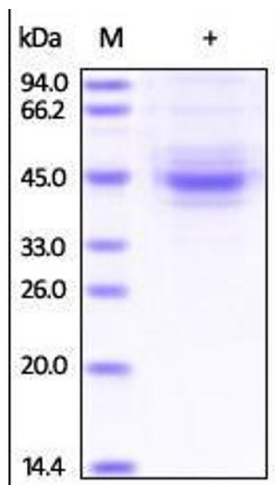
Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

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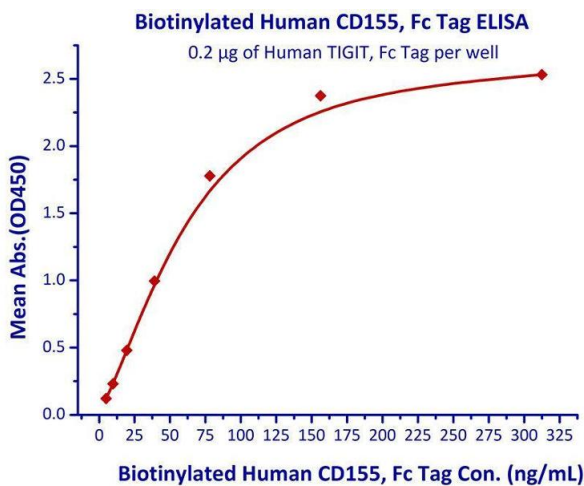
**ELISA**

**Image 1.** Immobilized Human TIGIT, Fc Tag (ABIN2181815,ABIN6951013) at 10 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-2, Fc,Avitag (ABIN5526672,ABIN5526673) with a linear range of 0.313-10 µg/mL (Routinely tested).



**SDS-PAGE**

**Image 2.** Human TIGIT, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.



**Image 3.** Measured by its binding ability in a functional ELISA. Immobilized Human TIGIT, Fc Tag with a linear range of 5-78 ng/mL.