

**Synonym**

PVR,FLJ25946,PVS,CD155,TAGE4,HVED,NECL5

**Source**

Human CD155, Mouse IgG2a Fc Tag, low endotoxin (CD5-H5254) is expressed from human 293 cells (HEK293). It contains AA Trp 21 - Asn 343 (Accession # [NP\\_006496.4](#)).

Predicted N-terminus: Trp 21

**Molecular Characterization**

CD155(Trp 21 - Asn 343) NP_006496.4	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 62.2 kDa. As a result of glycosylation, the protein migrates as 70-100 kDa under reducing (R) condition, and 130-160 kDa under non-reducing (NR) condition (SDS-PAGE).

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

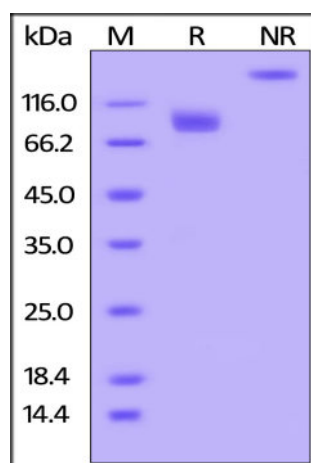
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

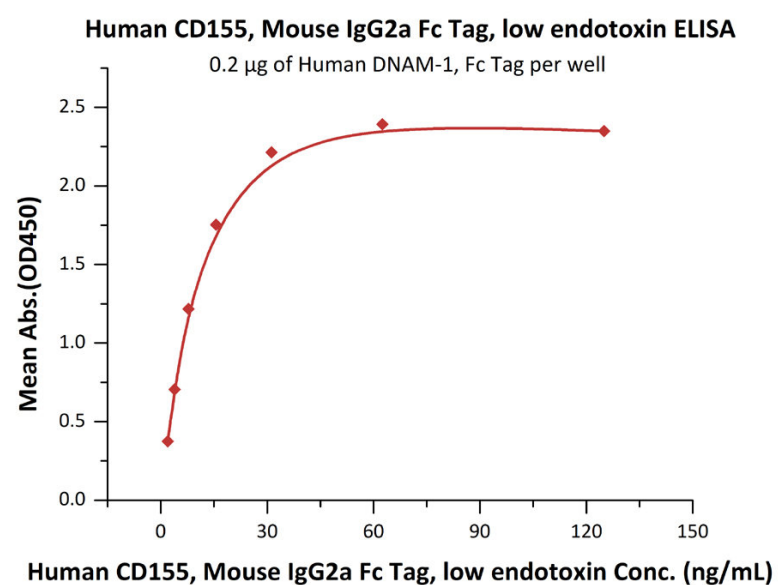
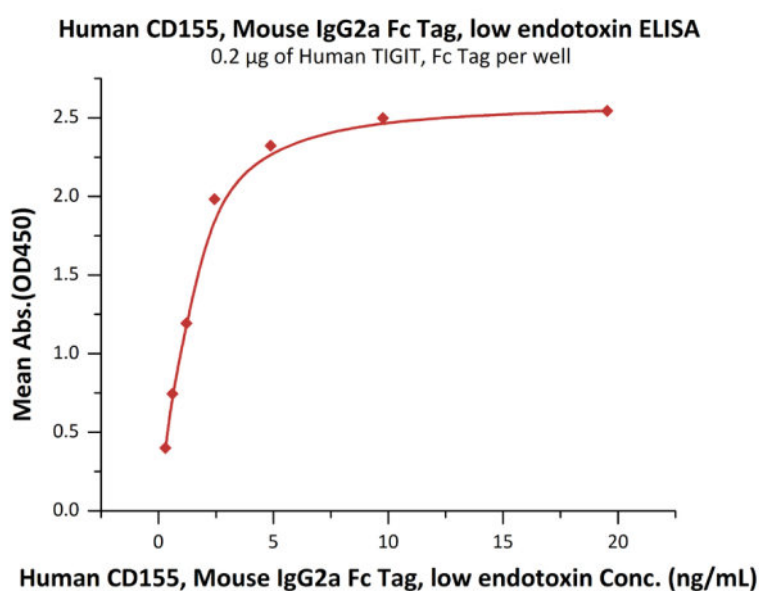
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

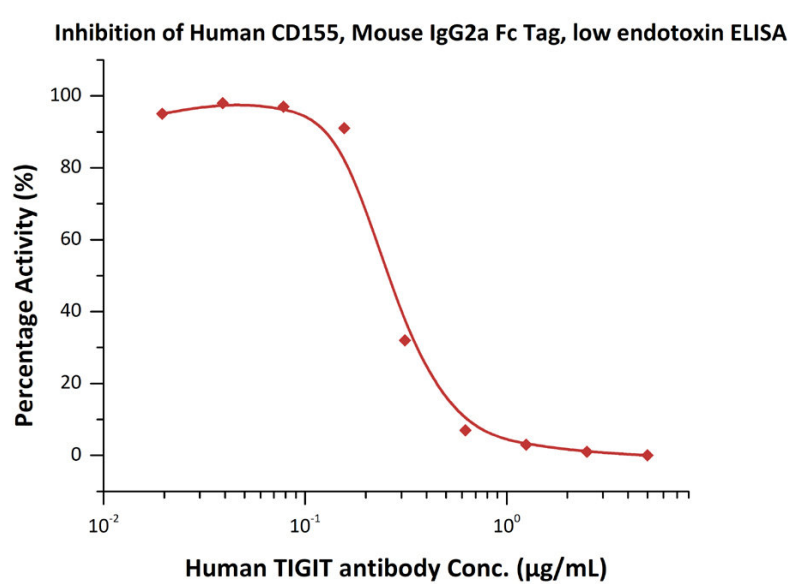
Human CD155, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



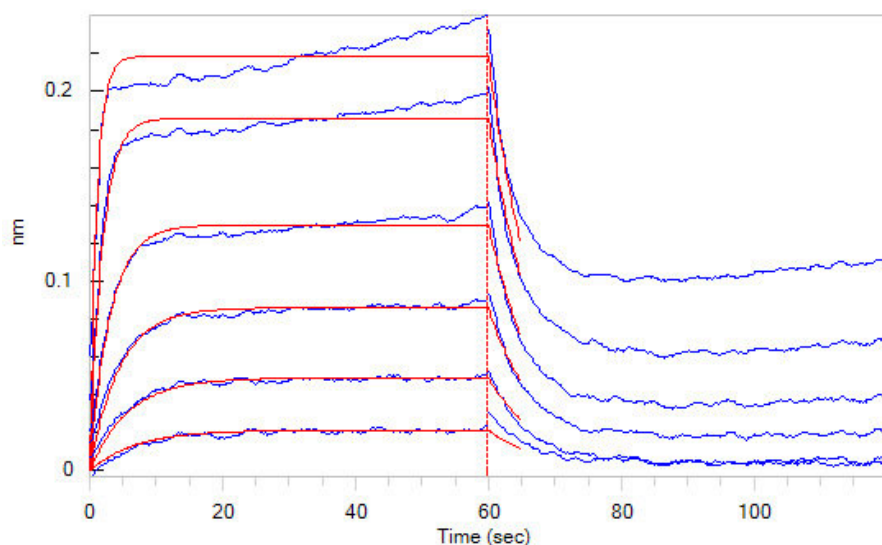
Immobilized Human TIGIT, Fc Tag (Cat. No. [TIT-H5254](#)) at 2 µg/mL (100 µL/well) can bind Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [CD5-H5254](#)) with a linear range of 0.3-2 ng/mL (QC tested).

Immobilized Human DNAM-1, Fc Tag (Cat. No. [DN1-H5257](#)) at 2 µg/mL (100 µL/well) can bind Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [CD5-H5254](#)) with a linear range of 1-16 ng/mL (Routinely tested).

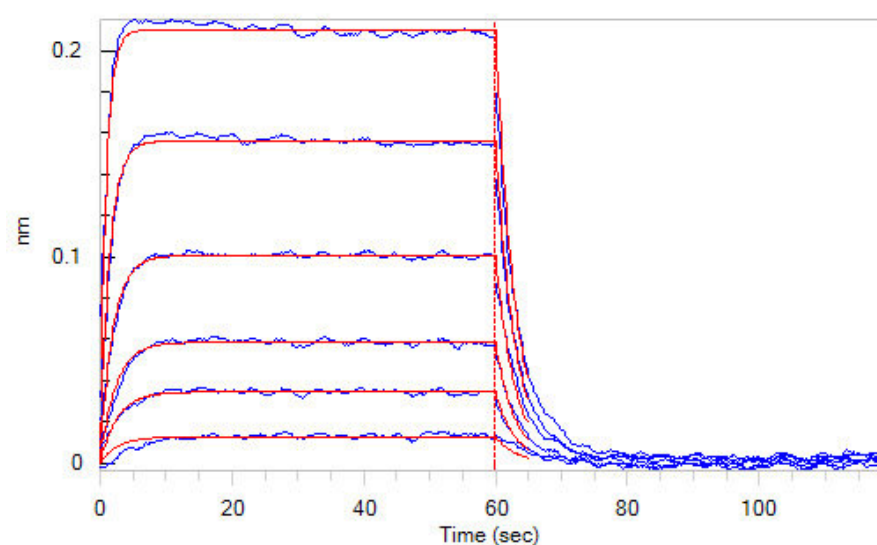


Serial dilutions of Human TIGIT Neutralizing antibody were added into Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [CD5-H5254](#)): Biotinylated Human TIGIT, Fc, Avitag (Cat. No. [TIT-H82F1](#)) binding reactions. The half maximal inhibitory concentration (IC50) is 0.08116 µg/mL (Routinely tested).

**Bioactivity-BLI**



Loaded Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [CD5-H5254](#)) on Protein A Biosensor, can bind Human TIGIT, His Tag (Cat. No. [TIT-H82F1](#)).

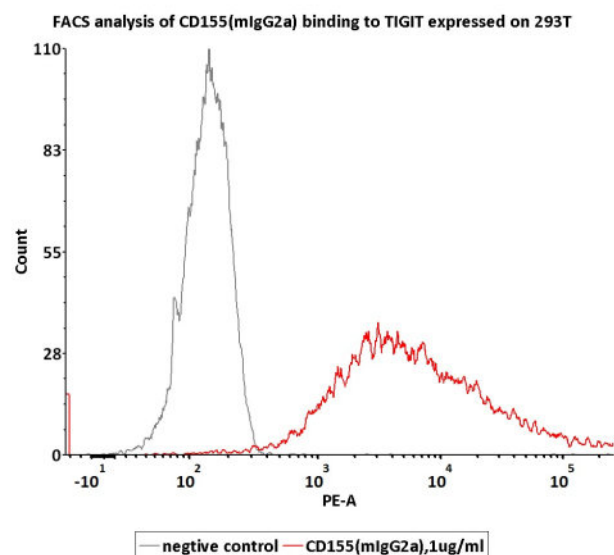


Loaded Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [CD5-H5254](#)) on Protein A Biosensor, can bind Human DNAM-1, His Tag (Cat. No. [DN1-H5257](#)).

TIT-H52H3) with an affinity constant of 0.24  $\mu\text{M}$  as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

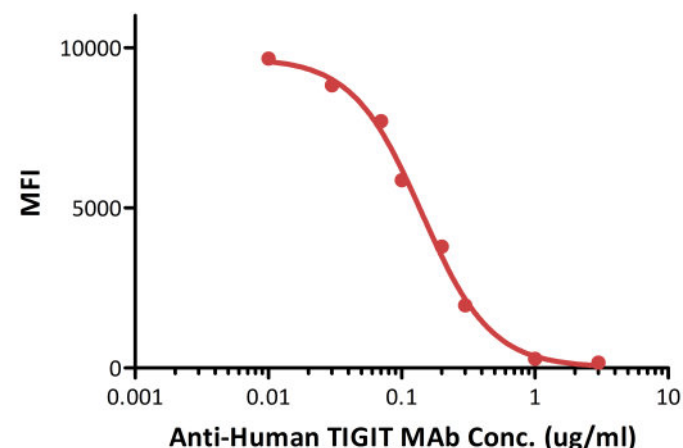
DN1-H52H6) with an affinity constant of 0.57  $\mu\text{M}$  as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Bioactivity-FACS



FACS assay shows that Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. CD5-H5254) can bind to 293T cell overexpressing human TIGIT. The concentration of CD155 is 1  $\mu\text{g}/\text{mL}$  (Routinely tested).

### Competitive experiment of neutralizing of Anti-Human TIGIT MAb



FACS analysis shows that the binding of Human CD155, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. CD5-H5254) to 293T overexpressing TIGIT was inhibited by increasing concentration of neutralizing Anti-Human TIGIT MAb. The concentration of CD155 used is 1  $\mu\text{g}/\text{mL}$ . The  $\text{IC}_{50}$  is 0.1413  $\mu\text{g}/\text{mL}$  (Routinely tested).

### Background

CD155 (cluster of differentiation 155) also known as the poliovirus receptor is a protein that is encoded by the PVR gene. CD155 is a Type I transmembrane glycoprotein in the immunoglobulin superfamily. Commonly known as Poliovirus Receptor (PVR) due to its involvement in the cellular poliovirus infection in primates, CD155's normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. The role of CD155 in the immune system is unclear, though it may be involved in intestinal humoral immune responses. Subsequent data has also suggested that CD155 may also be used to positively select MHC-independent T cells in the thymus.

### References

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.