

Recombinant Human PVR protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. PVR-622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PVR protein (Trp21-Asn343)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	323
Description	<p>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.</p>
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	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-

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	reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 0.1 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	PVR
Official Symbol	PVR
Synonyms	PVR; poliovirus receptor; PVS; CD155; HVED; Necl 5; NECL5; nectin like 5; Tage4; nectin-like 5; nectin-like protein 5; TAGE4; Necl-5; FLJ25946
Gene ID	5817
mRNA Refseq	NM_001135768
Protein Refseq	NP_001129240

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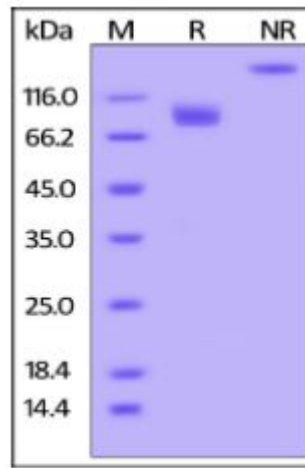
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MIM 173850

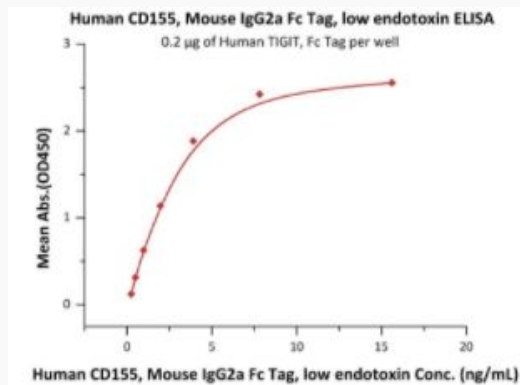
UniProt ID P15151

SDS-PAGE of PVR-622H



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 of PVR-622H



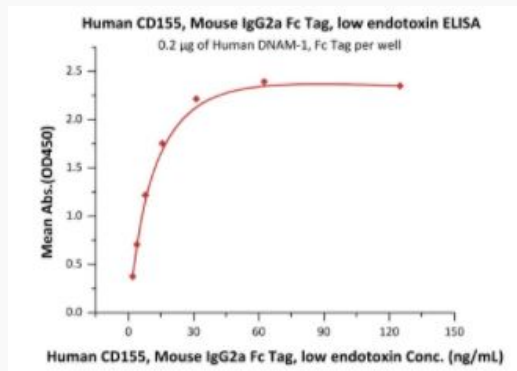
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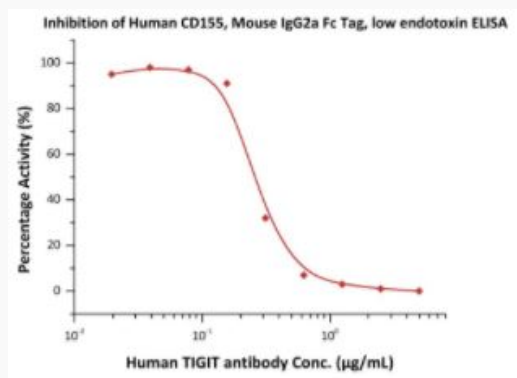
Immobilized Human TIGIT, Fc Tag at 2 µg/mL (100 µL/well) can bind Human CD155, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 0.1-4 ng/mL (QC tested).

**Bioactivity-ELISA of
PVR-622H**



Immobilized Human DNAM-1, Fc Tag at 2 µg/mL (100 µL/well) can bind Human CD155, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 1-16 ng/mL (Routinely tested).

**Bioactivity-ELISA of
PVR-622H**



Serial dilutions of Human TIGIT Neutralizing antibody were added into Human

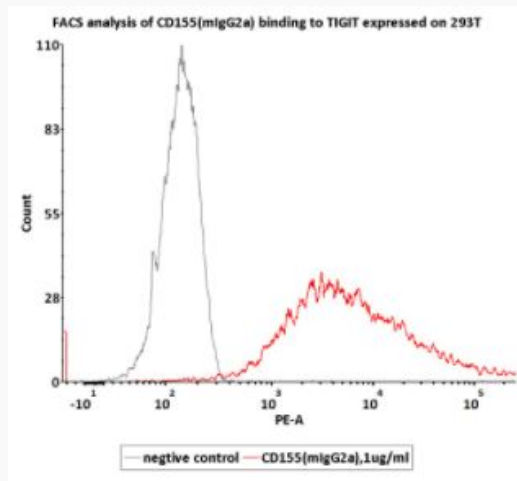
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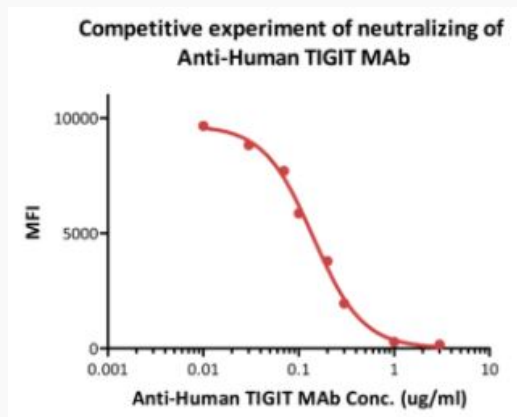
CD155, Mouse IgG2a Fc Tag, low endotoxin: Biotinylated Human TIGIT, Fc, Avitag binding reactions. The half maximal inhibitory concentration (IC₅₀) is 0.08116 µg/mL (Routinely tested).

Bioactivity-FACS of PVR-622H



FACS assay shows that Human CD155, Mouse IgG2a Fc Tag, low endotoxin can bind to 293T cell overexpressing human TIGIT. The concentration of CD155 is 1 µg/mL (Routinely tested).

Bioactivity-FACS of PVR-622H




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FACS analysis shows that the binding of Human CD155, Mouse IgG2a Fc Tag, low endotoxin to 293T overexpressing TIGIT was inhibited by increasing concentration of neutralizing Anti-Human TIGIT MAb. The concentration of CD155 used is 1 $\mu\text{g/mL}$. The IC50 is 0.1413 $\mu\text{g/mL}$ (Routinely tested).

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