

For Research Use Only

Recombinant Human CD155/PVR protein (hFc Tag, Myc Tag, His Tag)



Catalog Number: Eg0049

Basic Information

Species:

Human

Purity:

>95 %, SDS-PAGE

Tag:

C-hFc, Myc, His

EC50:

66-264 ng/mL

Technical Specifications

Purity:

>95 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human CD155 protein Trp21-Asn343 (Accession# NP_006496.4) with a human IgG1 Fc tag, a Myc tag and a His tag at the C-terminus.

GeneID:

5817

Accession:

NP_006496.4

Predicted Molecular Mass:

63.6 kDa

SDS-PAGE:

85-100 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human CD155 (hFc tag, Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human TIGIT (hFc tag, Myc tag, His tag) with a linear range of 66-264 ng/mL.

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

PVR also known as CD155, is a Type I transmembrane glycoprotein in the immunoglobulin superfamily. It contains three extracellular immunoglobulin-like domains, D1-D3, of which D1 is recognized by the virus. Mature human PVR consists of a 323 amino acid extracellular domain with one N-terminal V-type and two C2-type Ig-like domains, a 24 amino acid transmembrane segment, and a 50 amino acid cytoplasmic tail. PVR is thought to play a role in adhesion by interaction with the ECM component vitronectin as well as a role in NK killing of tumor cells. PVR binds to two receptors of NK cells, CD96 and CD226, and accumulates at cell-cell contact sites, leading to the formation of mature immune synapses between NK cells and target cells. PVR serves as the entry receptor for poliovirus and thereby mediates human susceptibility to poliovirus infection.

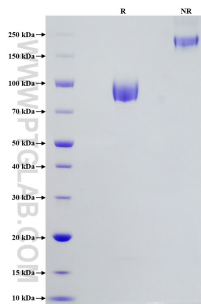
References

1. Mendelsohn CL. et al. (1989). Cell. 56(5):855-865.
2. Zhang P. et al. (2008). Proc Natl Acad Sci U S A. 105(47):18284-9.
3. Pende D. et al. (2005). Mol Immunol. 42(4):463-469.
4. Fuchs A. et al. (2004). J Immunol. 172(7):3994-8.

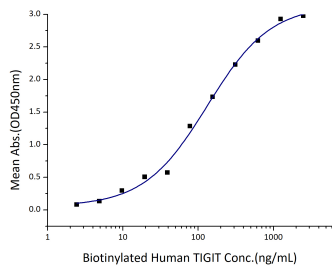
Synonyms

CD155/PVR, PVR, CD155, HVED, Necl 5

Selected Validation Data



Purity of Recombinant Human CD155 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human CD155 (hFc tag, Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human TIGIT (hFc tag, Myc tag, His tag) with a linear range of 66-264 ng/mL