

Active Recombinant Human PVR Homodimer Protein, His tagged

Cat. No. PVR-28H Lot. No. (See product label)

SPECIFICATION

Product Overview CD155 dimer protein contains a CD155 extracellular domain (Uniprot# P15151) fused with a proprietary dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.

Species Human

Source HEK293T

ProteinLength 21-343 aa

Description Human CD155 (cluster of differentiation 155) is a cell-surface type I transmembrane glycoprotein that belongs to the Nectin/Nectin-like family. It is also known as Poliovirus Receptor (PVR), HVED, NECL5, Necl-5, PVS, TAGE4, and FLJ25946. It consists of three extracellular immunoglobulin-like (Ig-like) domains (D1-D3), one transmembrane region, and a C-terminal cytoplasmic domain. CD155 is widely expressed on various cell types and often overexpressed on cancer cells. CD155 dimerization has emerged as an important factor in various diseases, especially cancer, poliovirus infection, and autoimmune disorders. Upregulation of CD155 in several types of human cancers is associated with a poor prognosis. Although CD155 itself is not an immune checkpoint, it's a ligand for checkpoint receptors like TIGIT (T-cell immunoreceptor with Ig and ITIM domains), CD226 (DNAM-1), and CD96. The interactions between CD155 and its receptors on immune cells modulate immune responses, such as T cells and natural killer (NK) cells. This makes CD155 a critical

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player in immune regulation and a promising target in checkpoint cancer therapies.

Molecular Mass 150 kDa

Purity Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Application Verified Applications: ELISA for CD155-specific antibody and TIGIT protein binding assays. SPR & BLI for CD155-specific antibody and TIGIT protein binding assays. Suggested Applications: ELISA for CD155-specific antibody and TIGIT ligand protein binding assays. SPR & BLI for CD155-specific antibody and TIGIT protein binding assays. Animal immunization, RUO.

Storage Store at -80 centigrade.

Storage Buffer 0.22µm filtered PBS, pH 7.4

Shipping Frozen Dry Ice

GENE INFORMATION

Gene Name [PVR poliovirus receptor \[Homo sapiens \(human\) \]](#)

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](#)

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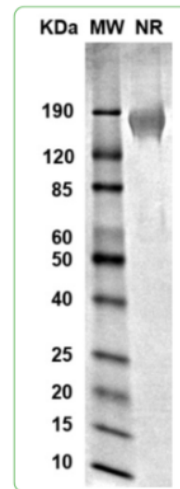
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Protein Refseq NP_001129240

MIM 173850

UniProt ID P15151

SDS-PAGE



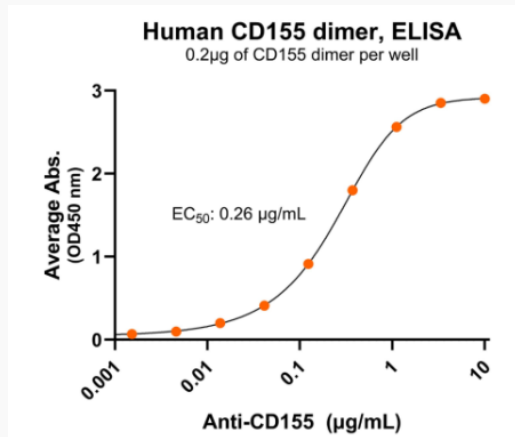
MW: Molecular Weight marker reduced condition NR: CD155 dimer under non-reducing condition

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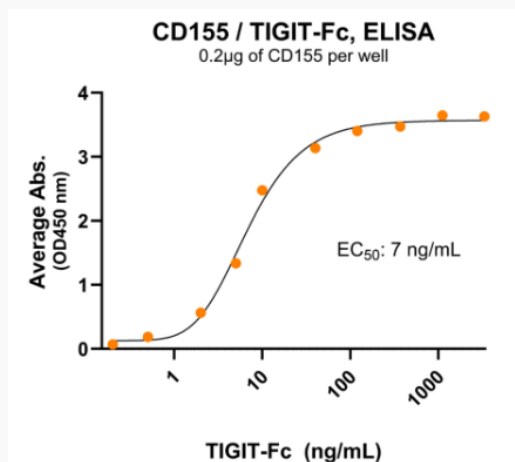
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Bioactivity-Antibody Binding



Immobilized human CD155 dimer protein, His Tag at 2 µg/mL (100 µL/well) can bind anti-human CD155 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 0.21-0.83 µg/mL (QC tested).

Bioactivity-Ligand Binding



Immobilized human CD155 dimer protein, His Tag at 2 µg/mL (100 µL/well) can bind human TIGIT dimer protein, with half maximal effective concentration (EC₅₀) range of 4-16.2 ng/mL (QC tested).

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