

PVR/CD155 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P7401
Synonyms:	rHuPVR/CD155, Fc Chimera; Poliovirus receptor; NECL-5; PVS
Species:	Human
Source:	HEK293
Accession:	P15151 (W21-N343)
Gene ID:	5817
Molecular Weight:	80-105 kDa

PROPERTIES

AA Sequence	<pre> W P P P G T G D V V V Q A P T Q V P G F L G D S V T L P C Y L Q V P N M E V T H V S Q L T W A R H G E S G S M A V F H Q T Q G P S Y S E S K R L E F V A A R L G A E L R N A S L R M F G L R V E D E G N Y T C L F V T F P Q G S R S V D I W L R V L A K P Q N T A E V Q K V Q L T G E P V P M A R C V S T G G R P P A Q I T W H S D L G G M P N T S Q V P G F L S G T V T V T S L W I L V P S S Q V D G K N V T C K V E H E S F E K P Q L L T V N L T V Y Y P P E V S I S G Y D N N W Y L G Q N E A T L T C D A R S N P E P T G Y N W S T T M G P L P P F A V A Q G A Q L L I R P V D K P I N T T L I C N V T N A L G A R Q A E L T V Q V K E G P P S E H S G I S R N </pre>
Biological Activity	<p>1. 5 µg/mL (100 µL/well) of immobilized recombinant human PVR/CD155-Fc can bind human Biotin-TIGIT-Fc with a linear range of 6.1-48.8 ng/mL.</p> <p>2. Measured by its binding ability in a functional ELISA. Immobilized human CD226, at 2 µg/mL (100 µL/well) can bind Biotinylated human CD155 protein. The ED₅₀ for this effect is 37.33 ng/mL, corresponding to a specific activity is 2.679×10⁴ Unit/mg.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, 5% trehalose and mannitol or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CD155 is a Type I transmembrane glycoprotein in the immunoglobulin superfamily^[1]. 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. CD155 may also be used to positively select MHC-independent T cells in the thymus^[2].

REFERENCES

[1]. Mendelsohn CL, et al. Cellular receptor for poliovirus: molecular cloning, nucleotide sequence, and expression of a new member of the immunoglobulin superfamily. *Cell*. 1989 Mar 10;56(5):855-65.

[2]. Maier MK, et al. The adhesion receptor CD155 determines the magnitude of humoral immune responses against orally ingested antigens. *Eur J Immunol*. 2007 Aug;37(8):2214-25.

Caution: Product has not been fully validated for medical applications. For research use only.

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