

CD155 active protein

Human CD155 Recombinant

CATALOG #	HOST
AAA76100	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

CD155; Human CD155 Recombinant; cd-155; PVR; HVED; NECL5; Necl-5; PVS; TAGE4; CD155 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant CD155 is supplied as a 0.2 um filtered PBS solution, pH7.2.
Sequence Length	372
Domain	Ig-like C2
Host Note	Optimized DNA sequence encoding Human extracellular domain of human CD155 including a C-terminal 6His tag was expressed in HEK293 cells.
Biological Activity	The biological activity of Human PVR was measured by the binding ability of immobilized recombinant Human CD155 (2ug/ml, 100 ul/well) to Human DNAM1 (linear range of 1-32 ng/ml) in a functional ELISA assay.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1mg/ml. This solution can then be diluted into other buffers.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Weight Note	Recombinant CD155 is a monomer protein consisting of 329 amino acid residue subunits, due to glycosylation migrates as an approximately 55-60 kDa protein on SDS-PAGE.
Preparation and Storage	Recombinant CD155, as supplied, can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C to -70 degree C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD155 active protein	hPVR (CD155) is a member of the immunoglobulin (Ig) superfamily, with three linked extracellular Ig-like domains followed by a membrane-spanning domain and a cytoplasmic domain. Although a physiological function for CD155 is unknown, the protein binds specifically to the extracellular matrix component vitronectin (Lange et al., 2001). Transcriptional regulation of the CD155 gene is tightly controlled.
Product Categories/Family for CD155 active protein	Receptors CD

References	• dnam-1/CD155 interactions promote cytokine and nk cell-mediated suppression of poorly immunogenic melanoma metastases .J. Immunol., Jan 2010; 184: 902 - 911. • primary human tumor cells expressing CD155 impair tumor targeting by down-regulating dnam-1 on nk cells .J. Immunol., Oct 2009; 183: 4921 - 4930. • cd96 interaction with CD155 via its first ig-like domain is modulated by alternative splicing or mutations in distal ig-like domains .J. Biol. Chem., Jan 2009; 284: 2235 - 2244. • crystal structure of CD155 and electron microscopic studies of its complexes with polioviruses .PNAS, Nov 2008; 105: 18284 - 18289. • characterization of the new world monkey homologues of human poliovirus receptor CD155 .J. Virol., Jul 2008; 82: 7167 - 7179.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209413728
NCBI GeneID	5817
NCBI Accession #	NP_001129240.1
NCBI GenBank Nucleotide #	NM_001135768.1
UniProt Accession #	P15151; P15152; Q15267; Q15268; Q96BJ1; B4DTS9
Molecular Weight	45,303 Da
NCBI Official Full Name	poliovirus receptor isoform beta
UniProt Protein Name	Poliovirus receptor
UniProt Gene Name	PVR
UniProt Synonym Gene Names	PVS; NECL-5
UniProt Entry Name	PVR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/cd155/76100>