

Active Recombinant Mouse Pvr Protein, mFc-tagged

Cat. No. Pvr-625M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CD155, Mouse IgG2a Fc Tag is expressed from human 293 cells (HEK293). It contains AA Asp 29 - Leu 348 (Accession # Q8K094-1). This protein carries a mouse IgG2a Fc tag at the C-terminus. Predicted N-terminus: Asp 29
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Species	Mouse
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Source	HEK293
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ProteinLength	29-348 aa
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Description	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. CD155/PVR was originally isolated based on its ability to mediate polio virus attachment to host cells. The fulllength (or CD155 alpha isoform) is synthesized as a 417 amino acid (aa) precursor that contains a 20 aa signal sequence, a 323 aa extracellular region, a 24 aa TM segment and a 50 aa cytoplasmic tail. The extracellular region contains one N terminal V type and two C2 type Ig like domains. CD155 is a transmembrane protein with 3 extracellular immunoglobulin-like domains, D1-D3, where D1 is recognized by the virus. Low resolution structures of CD155 complexed with poliovirus have been obtained using electron microscopy while a high resolution structures of the ectodomain D1 and D2 of CD155 were solved by x-ray crystallography.
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Mouse TIGIT, His Tag at 10 µg/mL (100 µL/well) can bind Mouse CD155, Mouse IgG2a Fc Tag with a linear range of 0.039-1.25 µg/mL.
Molecular Mass	The protein has a calculated MW of 61.8 kDa. The protein migrates as 80-120 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Pvr poliovirus receptor [<i>Mus musculus</i> (house mouse)]
Official Symbol	Pvr
Synonyms	Pvr; poliovirus receptor; PVS; mE4; HVED; Taa1; CD155; Tage4; necl-5; D7Ert458e; 3830421F03Rik; poliovirus receptor; tumor-associated antigen 1

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Gene ID	52118
mRNA Refseq	NM_027514
Protein Refseq	NP_081790
UniProt ID	Q8K094

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