

CD155/PVR Active Protein | PVR active protein

CD155/PVR Protein, Mouse, Recombinant (mFc Tag)

CATALOG #
AAA258150

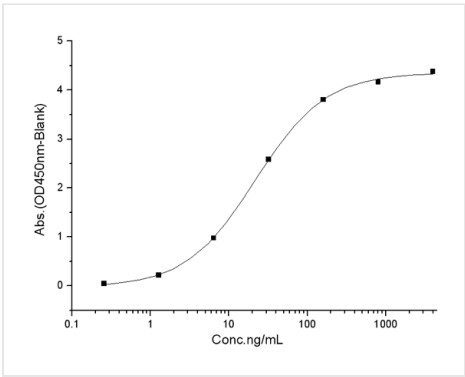
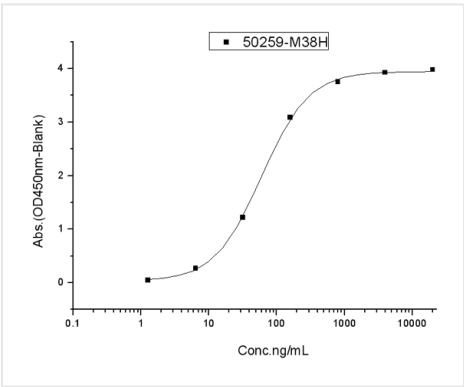
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD155/PVR; CD155/PVR Protein; Mouse; Recombinant (mFc Tag); Mouse CD155/PVR Protein (mFc Tag); 3830421F03Rik Protein; CD155 Protein; D7Ertd458e Protein; HVED Protein; mE4 Protein; nec1-5 Protein; PVS Protein; Taa1 Protein; Tage4 Protein; poliovirus receptor; PVR active protein

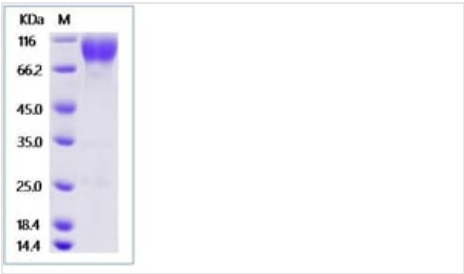
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg34 5
Species	Mouse
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Asp 29
Tag	C-mouse IgG2a-Fc
Protein Construction	A DNA sequence encoding the mouse PVR (NP_081790.1)(Met1-Arg345) was expressed with the Fc region of mouse IgG2a at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized TIGIT Protein, Human, Recombinant (ECD, His Tag) at 2ug/ml (100uL/well) can bind CD155/PVR Protein, Mouse, Recombinant (mFc Tag). The EC50 of CD155/PVR Protein, Mouse, Recombinant (mFc Tag) is 25-140ng/mL. 2. Immobilized mouse CD155 (mFc Tag) (50259-M38H) at 2ug/mL (100uL/well) can bind Mouse TIGIT-His, HPLC-verified (HPLC-50939-M08H). The EC50 of Mouse TIGIT-His, HPLC-verified (HPLC-50939-M08H) is 300-900ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data
Measured by its binding ability in a functional ELISA. Immobilized TIGIT Protein, Human, Recombinant (ECD, His Tag) at 2 ug/ml (100 ul/well) can bind CD155/PVR Protein, Mouse, Recombinant (mFc Tag), the EC50 of CD155/PVR Protein, Mouse, Recombinant (mFc Tag) is 25-140 ng/mL.

Application Data
Immobilized mouse CD155 (mFc Tag) at 2 ug/mL (100uL/well) can bind Mouse TIGIT-His, HPLC-verified (HPLC-50939-M08H), the EC50 of Mouse TIGIT-His, HPLC-verified (HPLC-50939-M08H) is 300-900 ng/mL.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PVR active protein	Background: CD155, commonly known as PVR (poliovirus receptor) and Necl-5 (nectin-like molecule-5), is a type I transmembrane single-span glycoprotein, and belongs to the nectins and nectin-like (Necl) subfamily. CD155 was originally identified based on its ability to mediate the cell attachment and entry of poliovirus (PV), an etiologic agent of the central nervous system disease poliomyelitis. The normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. CD155 may assist in an efficient humoral immune response generated within the intestinal immune system. It has been demonstrated that CD155 can be recognized and bond by DNAM-1 and CD96 which promote the adhesion, migration and NK-cell killing, and thus efficiently prime cell-mediated tumor-specific immunity.
Product Categories/Family for PVR active protein	Cancer Drug Targets
References	Freistadt MS, et al. (2000) Hematopoietic cells from CD155-transgenic mice express CD155 and support poliovirus replication ex vivo. Microb Pathog. 29(4): 203-12.Sato T, et al. (2004) Involvement of heterophilic trans-interaction of Necl-5/Tage4/PVR/CD155 with nectin-3 in formation of nectin- and cadherin-based adherens junctions. Genes Cells. 9(9): 791-9.Kakunaga S, et al. (2004) Enhancement of serum- and platelet-derived growth factor-induced cell proliferation by Necl-5/Tage4/poliovirus receptor/CD155 through the Ras-Raf-MEK-ERK signaling. J Biol Chem. 279(35): 36419-25.Sato T, et al. (2005) Common signaling pathway is used by the trans-interaction of Necl-5/Tage4/PVR/CD155 and nectin, and of nectin and nectin during the formation of cell-cell adhesion. Cancer Sci. 96(9): 578-89.Minami Y, et al. (2007) Involvement of up-regulated Necl-5/Tage4/PVR/CD155 in the loss of contact inhibition in transformed NIH3T3 cells. Biochem Biophys Res Commun. 352(4): 856-60.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28076965
NCBI GeneID	52118
NCBI Accession #	NP_081790.1

NCBI GenBank Nucleotide #	NM_027514.2
UniProt Accession #	Q8K094
Molecular Weight	44,668 Da
NCBI Official Full Name	poliovirus receptor
UniProt Protein Name	Poliovirus receptor
UniProt Gene Name	Pvr
UniProt Synonym Gene Names	D7Etd458e
UniProt Entry Name	Q8K094_MOUSE

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-pvr/258150>