

CD155/PVR Active Protein | PVR active protein

CD155/PVR Protein, Rhesus, Recombinant (His Tag)

CATALOG #
AAA258263

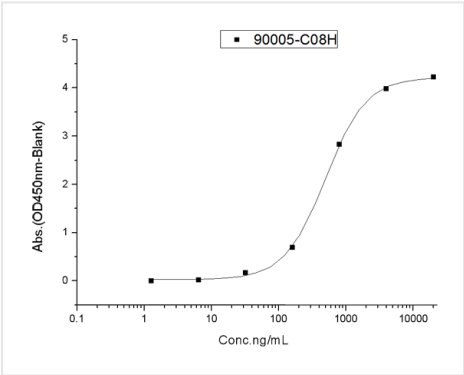
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD155/PVR; CD155/PVR Protein; Rhesus; Recombinant (His Tag); Rhesus CD155/PVR Protein (His Tag); poliovirus receptor; PVR active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>98% 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-Asn34 3
Species	Rhesus
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Asp 28
Tag	C-His
Protein Construction	A DNA sequence encoding the rhesus PVR (NP_001036851.1) extracellular domain (Met 1-Asn 343) was expressed with a C-terminal polyhistidine tag.
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 Rhesus CD155 at 2ug/ml (100uL/well) can bind human CD226 with a linear range of 1.28-32ng/mL. 2. Immobilized TIGIT Protein, Human, Recombinant (mFc Tag) at 2ug/ml (100uL/well) can bind CD155/PVR Protein, Rhesus, Recombinant (His Tag). The EC50 of CD155/PVR Protein, Rhesus, Recombinant (His Tag) is 200-900ng/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.



SDS-PAGE

Application Data
Immobilized TIGIT Protein, Human, Recombinant (mFc Tag) at 2 ug/ml (100 ul/well) can bind CD155/PVR Protein, Rhesus, Recombinant (His Tag), the EC50 of CD155/PVR Protein, Rhesus, Recombinant (His Tag) is 200-900 ng/mL.

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

Molecular Weight	The recombinant rhesus PVR consists of 327 amino acids and has a calculated molecular mass of 35.8kDa.
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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.