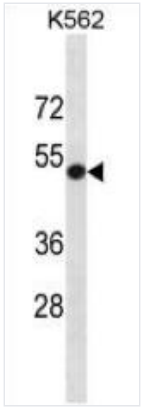
PVR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PVR, Polyclonal Antibody
Full Product Name	PVR, CT (PVR, PVS, Poliovirus receptor, Nectin-like protein 5, CD155) (PE)
Product Gene Name	anti-PVR antibody
Product Synonym Names	PVR; PVS; Poliovirus receptor; Nectin-like protein 5; CD155
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,864 Da
OMIM	173850
3D Structure	ModBase 3D Structure for P15151
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 314-342 in the C-terminal region of human PVR, UniProt Accession #NP_006496.3; P15151.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PVR antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-PVR antibody	Western Blot (WB), FLISA
Application Notes for anti-PVR antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PVR antibody	The protein encoded by this gene is a transmembrane glycoprotein belonging to the immunoglobulin superfamily. The external domain mediates cell attachment to the extracellular matrix molecule vitronectin, while its intracellular domain interacts with the dynein light chain Tctex-1/DYNLT1. The gene is specific to the primate lineage, and serves as a cellular receptor for poliovirus in the first step of poliovirus replication. Multiple transcript variants encoding different isoforms have been found for this gene.
Product References and Citations for anti-PVR antibody	1. Nakai, R., et al. Cancer Sci. 101(5):1326-1330(2010). 2. Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010). 3. Stanietsky, N., et al. Proc. Natl. Acad. Sci. U.S.A. 106(42):17858-17863(2009). 4. Carlsten, M., et al. J. Immunol. 183(8):4921-4930(2009). 5. Kindberg, E., et al. J. Med. Virol. 81(5):933-936(2009).

Other Notes	Small volumes of anti-PVR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PVR purchase	MBS6339238 is an antibody targeting PVR. Also known as PVR, CT (PVR, PVS, Poliovirus receptor, Nectin-like protein 5, CD155) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PVR antibody
Western Blot analysis in K562 cell line lysates (35ug/lane) usingMBS643220. This demonstrates that MBS643220 detected the PVR protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PVR. It may not necessarily be applicable to this product.

NCBI GI #	209413726
NCBI GeneID	5817
NCBI Accession #	NP_006496.3
UniProt Primary Accession #	P15151
UniProt Secondary Accession #	P15152; Q15267; Q15268; Q96BJ1; B4DTS9
UniProt Related Accession #	P15151
GenBank Nucleotide #	NM_006505.3
NCBI Official Full Name	poliovirus receptor isoform alpha
NCBI Official Synonym Full Names	poliovirus receptor
NCBI Official Symbol	PVR
NCBI Official Synonym Symbols	PVS; HVED; CD155; NECL5; TAGE4; Necl-5
UniProt Protein Name	Poliovirus receptor
UniProt Synonym Protein Names	Nectin-like protein 5
Protein Family	Poliovirus receptor
UniProt Gene Name	PVR
UniProt Synonym Gene Names	PVS; NECL-5
UniProt Entry Name	PVR_HUMAN
NCBI Protein Information	poliovirus receptor

UniProt Comments for PVR	PVR: Mediates NK cell adhesion and triggers NK cell effector functions. Binds two different NK cell receptors: CD96 and CD226. These interactions accumulates at the cell-cell contact site, leading to the formation of a mature immunological synapse between NK cell and target cell. This may trigger adhesion and secretion of lytic granules and IFN-gamma and activate cytoxicity of activated NK cells. May also promote NK cell-target cell modular exchange, and PVR transfer to the NK cell. This transfer is more important in some tumor cells expressing a lot of PVR, and may trigger fratricide NK cell activation, providing tumors with a mechanism of immunoevasion. Plays a role in mediating tumor cell invasion and migration. Serves as a receptor for poliovirus attachment to target cells. May play a role in axonal transport of poliovirus, by targeting virion-PVR-containing endocytic vesicles to the microtubular network through interaction with DYNLT1. This interaction would drive the virus-containing vesicle to the axonal retrograde transport. Belongs to the nectin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Immunoglobulin superfamily; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: extracellular space; cell surface; focal adhesion; cytoplasm; plasma membrane; integral to membrane Molecular Function: viral receptor activity; protein binding; receptor activity; cell adhesion molecule binding Biological Process: intercellular junction assembly and maintenance; regulation of immune response; cell migration; entry of virus into host cell; cell-cell adhesion; positive regulation of natural killer cell mediated cytotoxicity directed against tumor cell target; response to virus; susceptibility to natural killer cell mediated cytotoxicity; positive regulation of natural killer cell mediated cytotoxicity
Research Articles on PVR	**1.** sCD155 levels were significantly decreased after surgical resection of cancers. Thus, sCD155 level in serum may be potentially useful as a biomarker for cancer development and progression
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