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PVR Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19996b

Product Information

Application	WB, E
Primary Accession	P15151
Other Accession	NP_006496.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41981
Calculated MW	45303
Antigen Region	314-342

Additional Information

Gene ID	5817
Other Names	Poliovirus receptor, Nectin-like protein 5, NECL-5, CD155, PVR, PVS
Target/Specificity	This PVR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 314-342 amino acids from the C-terminal region of human PVR.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PVR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PVR
Synonyms	PVS
Function	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 cytotoxicity 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.
Cellular Location	[Isoform Alpha]: Cell membrane; Single-pass type I membrane protein [Isoform Beta]: Secreted.

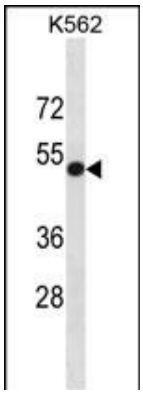
Background

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.

References

Nakai, R., et al. Cancer Sci. 101(5):1326-1330(2010)
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Stanietsky, N., et al. Proc. Natl. Acad. Sci. U.S.A. 106(42):17858-17863(2009)
Carlsten, M., et al. J. Immunol. 183(8):4921-4930(2009)
Kindberg, E., et al. J. Med. Virol. 81(5):933-936(2009)

Images



PVR Antibody (C-term) (Cat. #AP19996b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the PVR antibody detected the PVR protein (arrow).