

Product datasheet

Human PVR (Poliovirus Receptor) knockout A549 cell lysate ab261686

2 Images

Overview

Product name	Human PVR (Poliovirus Receptor) knockout A549 cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	A549
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 11 bp deletion; Frameshift = 100%
Passage number	<20
Knockout validation	Next Generation Sequencing (NGS), Western Blot (WB)
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT.

**Usage of SDS sample buffer is not recommended with these lyophilized lysates.*

Notes

Lysate preparation: Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

User storage instructions: Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

[See here for more information on knockout cell lysates.](#)

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Tested applications

Suitable for: WB

Properties

Storage instructions Store at -80°C. Please refer to protocols.

Components	1 kit
ab280436 - Human PVR knockout A549 cell lysate	1 x 100µg
ab259782 - Human wild-type A549 cell lysate	1 x 100µg

Cell type epithelial
Disease Carcinoma
Gender Male

Target

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. 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.

Sequence similarities Belongs to the nectin family.
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

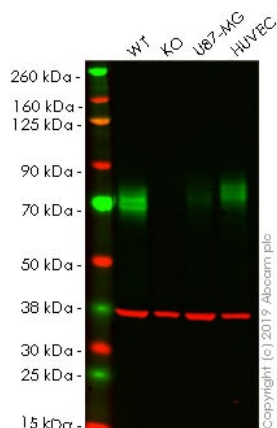
Cellular localization Secreted and Cell membrane.

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab261686 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.

Images



Western blot - Human PVR (Poliovirus Receptor) knockout A549 cell lysate (ab261686)

Lane 1: Wild-type A549 (Human lung carcinoma cell line) whole cell lysate 20 ug

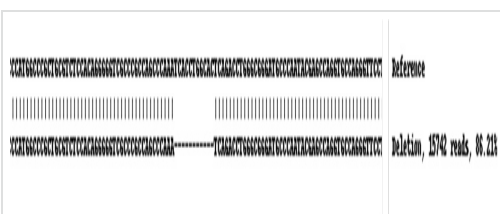
Lane 2: PVR knockout A549 (Human lung carcinoma cell line) whole cell lysate 20 ug

Lane 3: U87-MG whole cell lysate 20 ug

Lane 4: HUVEC (Human umbilical vein endothelial cell line) whole cell lysate 20 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab205304** observed at 70 kDa (**ab205304**), 60-80 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab205304 was shown to specifically react with Poliovirus Receptor in wild-type A549 cells as signal was lost in PVR knockout cell line **ab261877** (knockout cell lysate ab261686). Wild-type and PVR knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% milk. Ab205304 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Next Generation Sequencing - Human PVR (Poliovirus Receptor) knockout A549 cell lysate (ab261686)

Knockout achieved by CRISPR/Cas9; X = 11 bp deletion; Frameshift = 100%

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