abcam

Product datasheet

Anti-Poliovirus Receptor/PVR antibody [EPR17302] - BSA and Azide free ab228348

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-Poliovirus Receptor/PVR antibody [EPR17302] - BSA and Azide free
Description	Rabbit monoclonal [EPR17302] to Poliovirus Receptor/PVR - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293T and A549 cell lysates. IP: U-87 MG cell lysate.
General notes	ab228348 is the carrier-free version of **ab205304**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17302
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab228348 in the following tested applications.

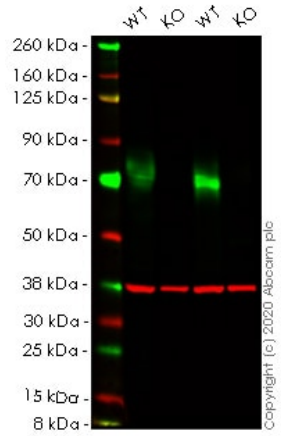
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 70 kDa (predicted molecular weight: 45 kDa).
IP		Use at an assay dependent concentration.

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 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.
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.

Images



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] - BSA and Azide free (ab228348)

All lanes : Anti-Poliovirus Receptor/PVR antibody [EPR17302] (**ab205304**) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : PVR knockout HEK-293T cell lysate
Lane 3 : Wild-type A549 cell lysate
Lane 4 : PVR knockout A549 cell lysate

Lysates/proteins at 20 µg per lane.

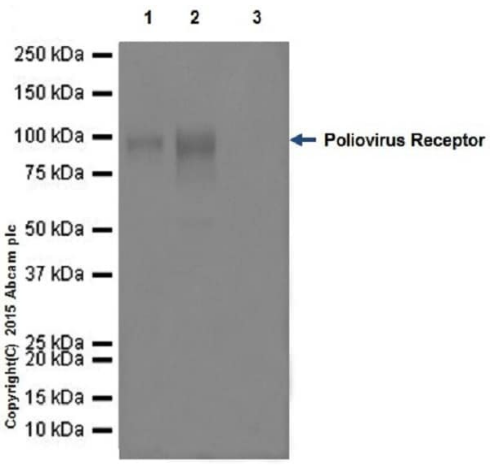
Performed under reducing conditions.

Predicted band size: 45 kDa
Observed band size: 70 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab205304**).

Lanes 1- 4: Merged signal (red and green). Green - **ab205304** observed at 70 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab205304 was shown to react with Poliovirus Receptor/PVR in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line **ab266102** (knockout cell lysate **ab257622**) was used. Wild-type HEK-293T and PVR knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab205304** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunoprecipitation - Anti-Poliovirus Receptor/PVR antibody [EPR17302] - BSA and Azide free (ab228348)

Poliovirus Receptor/PVR was immunoprecipitated from 1mg of U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate with **ab205304** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab205304** at 1/2000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: U-87 MG whole cell lysate 10µg (Input).

Lane 2: **ab205304** IP in U-87 MG whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab205304** in U-87 MG whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205304**).

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