# abcam

# Product datasheet

# Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] ab267788



リコンピナント

RabMAb

# 1 References 画像数 8

#### 製品の概要

製品名 Anti-Poliovirus Receptor/PVR antibody [EPR22672-151]

製品の詳細 Rabbit monoclonal [EPR22672-151] to Poliovirus Receptor/PVR

由来種 Rabbit

アプリケーション 適用あり: WB, IHC-P, Flow Cyt

適用なし: ICC/IF or IP

種交差性 交差種: Human

免疫原 Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

ポジティブ・コントロール IHC-P: Human breast cancer, lung cancer and colon cancer tissue. Flow Cyt: A549 cells. WB:

HEK293T, A549, WI-38, HT-1080, U-87 MG, HUVEC and MCF7 whole cell lysate.

特記事項 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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**<sup>®</sup> **patents**.

#### 製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

**バッファー** pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)

精製度 Protein A purified

**ポリ/モノ** モノクローナル

1

クローン名

EPR22672-151

アイソタイプ

lgG

#### アプリケーション

**The Abpromise guarantee** <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab267788の使用に適用されます アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 70 kDa (predicted molecular weight: 45 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/50.

追加情報

Is unsuitable for ICC/IF or IP.

#### ターゲット情報

## 機能

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.

# 配列類似性

Belongs to the nectin family.

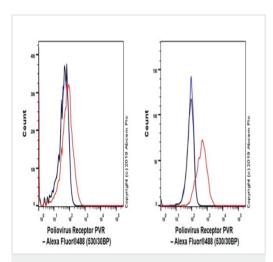
Contains 2 lg-like C2-type (immunoglobulin-like) domains.

Contains 1 lg-like V-type (immunoglobulin-like) domain.

#### 細胞内局在

Secreted and Cell membrane.

#### 画像

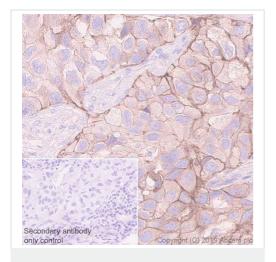


Flow Cytometry - Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788)

Flow cytometric analysis of Raji (Human Burkitt's lymphoma B lymphocyte) (Left panel) and A549 (Human lung carcinoma epithelial cell) (Right panel) labeling Poliovirus Receptor/PVR with ab267788 at 1/50 dilution (Red) compared with a Rabbit monoclonal lgG (ab172730) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit lgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.

Negative control: Raji (PMID:31500665).

Gated on viable cells.

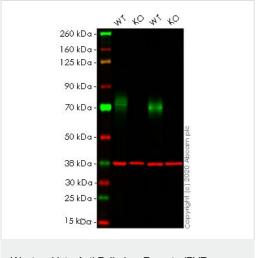


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788)

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue labeling Poliovirus Receptor/PVR with ab267788 at 1/500 dilution (1.01µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in human lung cancer (PMID:20331633). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit lgG H&L (HRP).

Heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788)

**All lanes :** Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788) 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

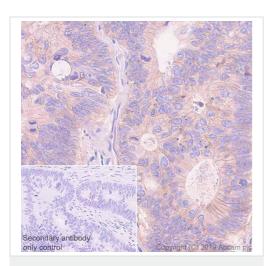
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

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

**Lanes 1-4:** Merged signal (red and green). Green - ab267788 observed at 70 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (ab8245) observed at 37 kDa.

ab267788 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 <a href="mailto:ab266102">ab266102</a> (knockout cell lysate <a href="mailto:ab257622">ab257622</a>) 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. ab267788 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.

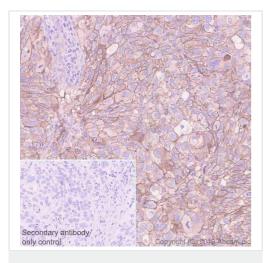


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788)

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue labeling Poliovirus Receptor/PVR with ab267788 at 1/500 dilution (1.01µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in human colon cancer (PMID: 28816021,11454801). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit lgG H&L (HRP).

Heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).

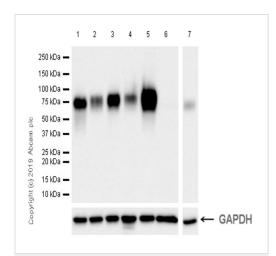


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling Poliovirus Receptor/PVR with ab267788 at 1/500 dilution ( $1.01\mu g/ml$ ) followed by a ready to use Goat Anti-Rabbit lgG H&L (HRP). Positive staining in human breast cancer (PMID:31035013). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit lgG H&L (HRP).

Heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788)

**All lanes :** Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788) at 1/1000 dilution

**Lane 1**: A549 (human lung carcinoma epithelial cell), whole cell lysate

Lane 2: WI-38 (human fetal lung fibroblast), whole cell lysate

**Lane 3 :** HT-1080 (human fibrosarcoma epithelial cell), whole cell lysate

**Lane 4**: U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate

**Lane 5 :** HUVEC (human umbilical vein endothelial cell), whole cell lysate

Lane 6 : Raji (human Burkitt's lymphoma B lymphocyte), whole cell lysate

**Lane 7 :** MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/100000 dilution

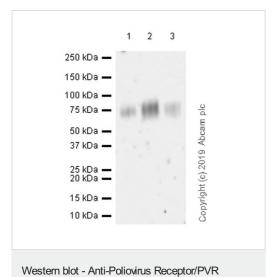
**Predicted band size:** 45 kDa **Observed band size:** 70 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 10 seconds.

Negative control: Raji (PMID: 28829151, 31500665).

PVR/CD155 is a glycoprotein. The molecular weight observed is consistent with what has been described in the literature (PMID:17893876,11454801).



antibody [EPR22672-151] (ab267788)

**All lanes :** Anti-Poliovirus Receptor/PVR antibody [EPR22672-151] (ab267788) at 1/1000 dilution

Lane 1 : Human placenta lysate
Lane 2 : Human lung cancer lysate
Lane 3 : Human colon cancer lysate

Lysates/proteins at 20 µg per lane.

## **Secondary**

**All lanes :** VeriBlot for IP Detection Reagent (HRP) (<u>ab131366</u>) at 1/2000 dilution

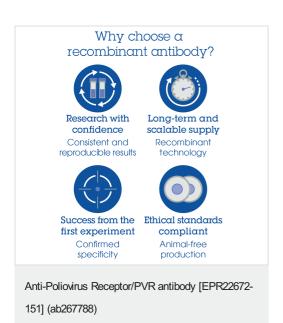
**Predicted band size:** 45 kDa **Observed band size:** 70 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

PVR/CD155 is a glycoprotein. The molecular weight observed is consistent with what has been described in the literature (PMID:17893876,11454801).

This blot was developed using a higher sensitivity ECL substrate.



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