abcam

Product datasheet

Anti-Poliovirus Receptor/PVR antibody [EPR17302] ab205304

KO 評価済 リコンビナント RabMAb

画像数 8

製品の概要

製品名	Anti-Poliovirus Receptor/PVR antibody [EPR17302]
製品の詳細	Rabbit monoclonal [EPR17302] to Poliovirus Receptor/PVR
由来種	Rabbit
アプリケーション	**適用あり:** WB, 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	WB: HEK293T, HT1080, U-87 MG, A549, HUVEC and K562 whole cell lysates; human fetal heart, fetal kidney and fetal spleen lysates. IP: U-87 MG 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® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® 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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR17302
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab205304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).
IP		1/30.

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.

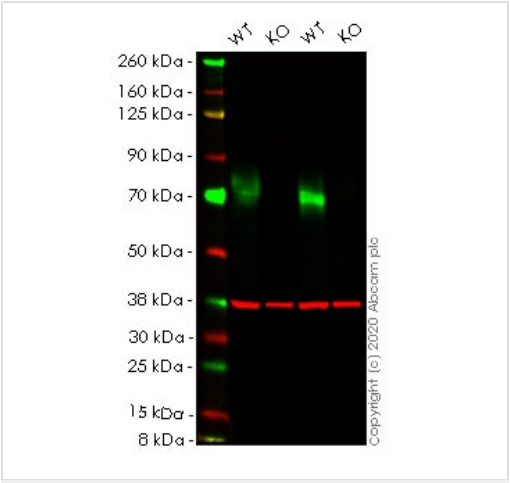
配列類似性

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

細胞内局在

Secreted and Cell membrane.

画像



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

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

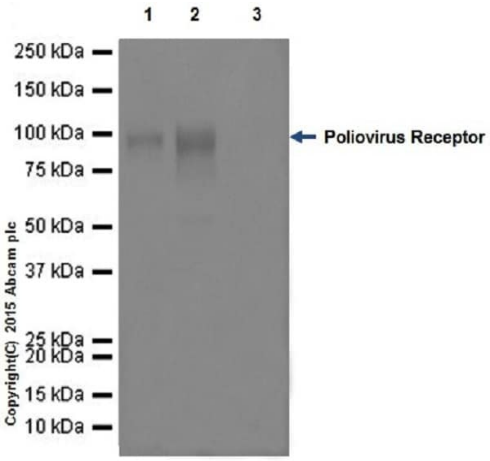
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

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

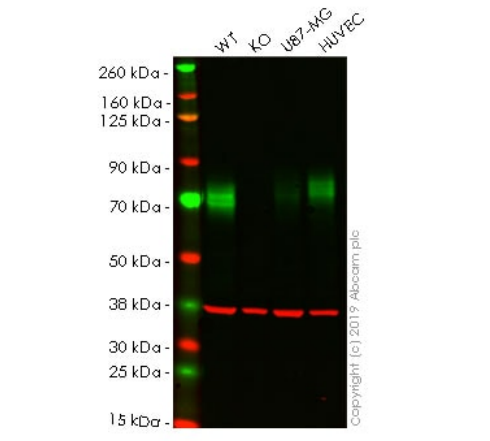
Lanes 1- 4: Merged signal (red and green). Green - ab205304 observed at 70 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

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] (ab205304)

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.



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

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

Lane 1 : Wild-type A549 (Human lung carcinoma cell line) whole cell lysate
Lane 2 : PVR knockout A549 (Human lung carcinoma cell line) whole cell lysate
Lane 3 : U87-MG whole cell lysate
Lane 4 : HUVEC (Human umbilical vein endothelial cell line) whole cell lysate

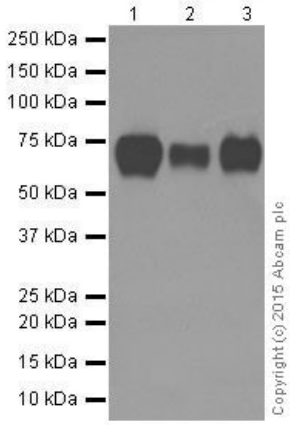
Lysates/proteins at 20 µg per lane.

Predicted band size: 45 kDa

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 cells. 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.



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

All lanes : Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304) at 1/4000 dilution

Lane 1 : HT1080 (Human fibrosarcoma cell line) whole cell lysate
Lane 2 : U87-MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate
Lane 3 : HUVEC (Human umbilical vein endothelial cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

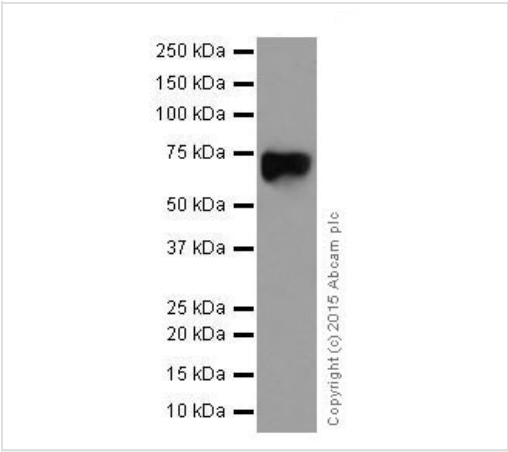
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Developed using the ECL technique.

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

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304) at 1/1000 dilution + K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 20 µg

Secondary

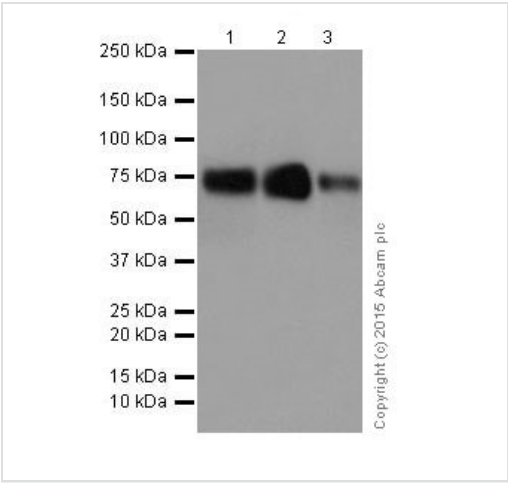
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Developed using the ECL technique.

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

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

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

Lane 1 : Human fetal heart lysate
Lane 2 : Human fetal kidney lysate
Lane 3 : Human fetal spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary

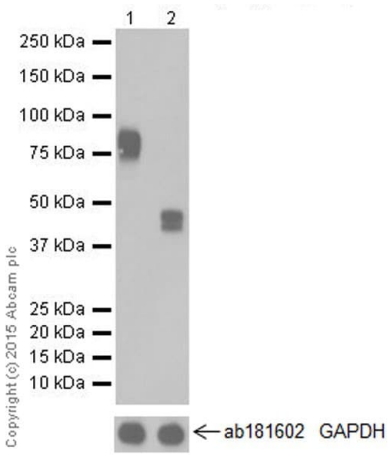
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Developed using the ECL technique.

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

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

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

Lane 1 : Untreated K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate
Lane 2 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate deglycosylation (PNGase F) treated

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

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

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Anti-Poliovirus Receptor/PVR antibody [EPR17302] (ab205304)

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