abcam

Product datasheet

Anti-VAV2 antibody [EP1067Y] ab52640

KO 評価済 リコンビナント RabMAb

3 Abreviews 21 References 画像数 7

製品の概要

製品名	Anti-VAV2 antibody [EP1067Y]
製品の詳細	Rabbit monoclonal [EP1067Y] to VAV2
由来種	Rabbit
特異性	This antibody detects Vav2 phosphorylated on Tyr172 as well as unphosphorylated Vav2.
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IP, IHC-P
種交差性	**交差種:** Mouse, Human **交差が予測される動物種:** Rat
免疫原	Synthetic peptide within Human VAV2. The exact sequence is proprietary.
ポジティブ・コントロール	WB: HeLa cells; HAP1 cells; HEK293 cells. IHC-P: Human cervical carcinoma. Flow Cyt (intra): HeLa cells. IP: HEK293 cells.
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 -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EP1067Y
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ab52640の使用に適用されます

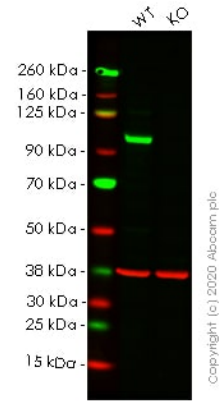
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/2500.
WB	★★★★★ (3)	1/20000. Detects a band of approximately 101 kDa (predicted molecular weight: 101 kDa).
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能	Guanine nucleotide exchange factor for the Rho family of Ras-related GTPases. Plays an important role in angiogenesis. Its recruitement by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly.
組織特異性	Widely expressed.
配列類似性	Contains 1 CH (calponin-homology) domain. Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 SH2 domain. Contains 2 SH3 domains.

画像



Western blot - Anti-VAV2 antibody [EP1067Y] (ab52640)

All lanes : Anti-VAV2 antibody [EP1067Y] (ab52640) at 1/20000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : VAV2 knockout HeLa cell lysate

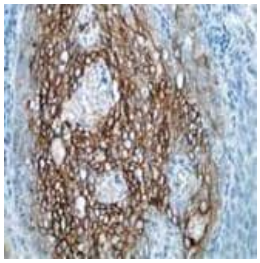
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 101 kDa
Observed band size: 100 kDa

Lanes 1- 2: Merged signal (red and green). Green - ab52640 observed at 100 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

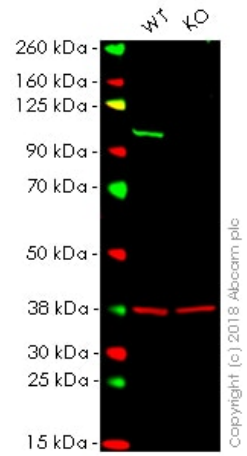
ab52640 was shown to react with VAV2 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab265318** (knockout cell lysate **ab257794**) was used. Wild-type HeLa and VAV2 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab52640 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 20000 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 paraffin-embedded sections) - Anti-VAV2 antibody [EP1067Y] (ab52640)

Human cervical carcinoma stained with ab52640 at 1/50 - 1/100 dilution

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-VAV2 antibody [EP1067Y] (ab52640)

All lanes : Anti-VAV2 antibody [EP1067Y] (ab52640) at 1/20000 dilution

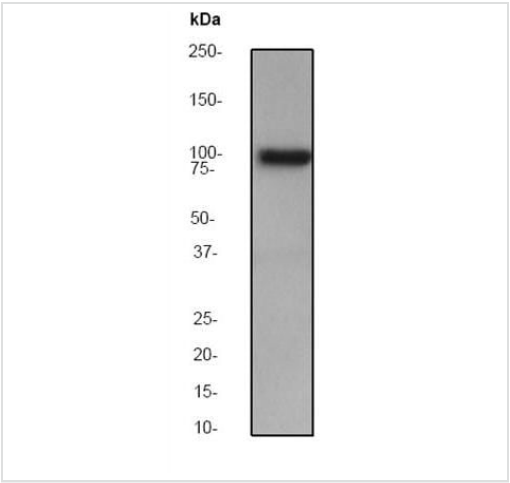
Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : VAV2 knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 101 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab52640 observed at 101 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab52640 was shown to specifically react with VAV2 in wild-type HAP1 cells as signal was lost in VAV2 knockout cells. Wild-type and VAV2 knockout samples were subjected to SDS-PAGE. Ab52640 and **ab9484** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/20000 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-VAV2 antibody [EP1067Y] (ab52640)

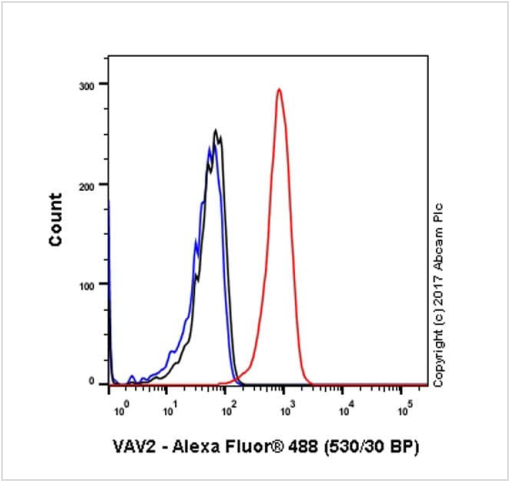
Anti-VAV2 antibody [EP1067Y] (ab52640) at 1/20000 dilution + 293 cell lysate at 10 µg

Secondary

Goat anti-rabbit HRP labeled at 1/2000 dilution

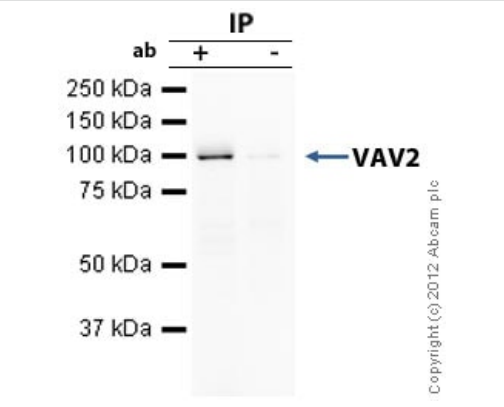
Predicted band size: 101 kDa

Observed band size: 101 kDa



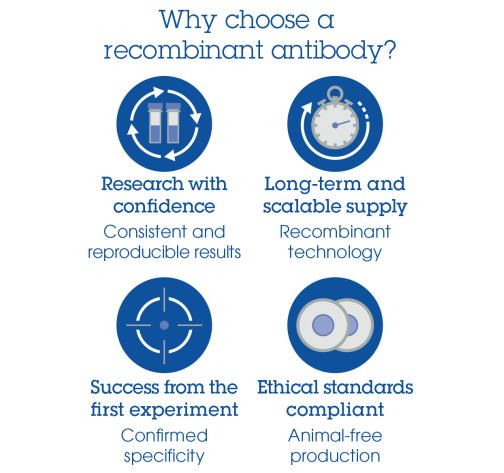
Flow Cytometry (Intracellular) - Anti-VAV2 antibody [EP1067Y] (ab52640)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling VAV2 (red) with ab52640 at a 1/2500 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluorr® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Immunoprecipitation - Anti-VAV2 antibody [EP1067Y] (ab52640)

VAV2 was immunoprecipitated using 0.5mg Hek293 whole cell extract, 10µg of Rabbit monoclonal to VAV2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Hek293 whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab52640.
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (**ab99697**).
Band: 100kDa; VAV2.



Anti-VAV2 antibody [EP1067Y] (ab52640)

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