


Anti-VAV2 antibody [EP1067Y] ab52640

敲除验证 重组 RabMAb

★★★★★ 3 Abreviews 21 References 7 图像

概述	
产品名称	Anti-VAV2抗体[EP1067Y]
描述	兔单克隆抗体[EP1067Y] to VAV2
宿主	Rabbit
特异性	This antibody detects Vav2 phosphorylated on Tyr172 as well as unphosphorylated Vav2.
经测试应用	适用于: Flow Cyt (Intra), WB, IP, IHC-P
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Synthetic peptide within Human VAV2. The exact sequence is proprietary.
阳性对照	WB: HeLa cells; HAP1 cells; HEK293 cells. IHC-P: Human cervical carcinoma. Flow Cyt (intra): HeLa cells. IP: HEK293 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>
性能	
形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆

克隆编号

EP1067Y

同种型

IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab52640于以下的经测试应用

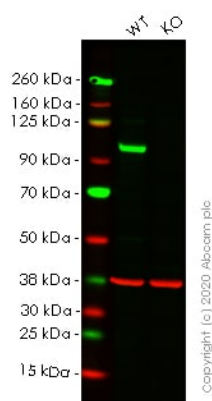
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能	Guanine nucleotide exchange factor for the Rho family of Ras-related GTPases. Plays an important role in angiogenesis. Its recruitment by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly.
组织特异性	Widely expressed.
序列相似性	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.

图片



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.

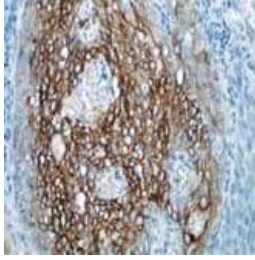
Performed under reducing conditions.

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.

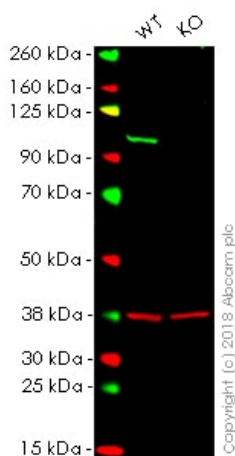
ab52640 was shown to react with VAV2 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line [ab265318](#) (knockout cell lysate [ab257794](#)) was used. Wild-type HeLa and VAV2 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour 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

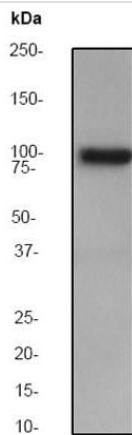
Lane 2 : VAV2 knockout HAP1 whole cell lysate

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)

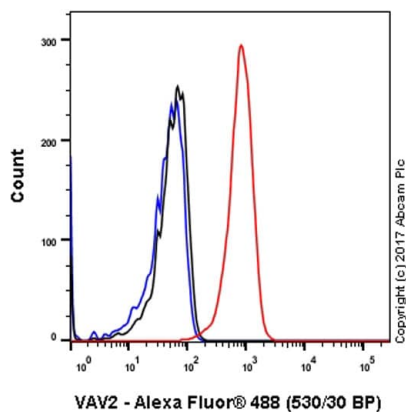
Anti-VAV2 antibody [EP1067Y] (ab52640) at 1/20000 dilution + 293 cell lysate at 10 µg

Secondary

Goat anti-rabbit HRP labeled at 1/2000 dilution

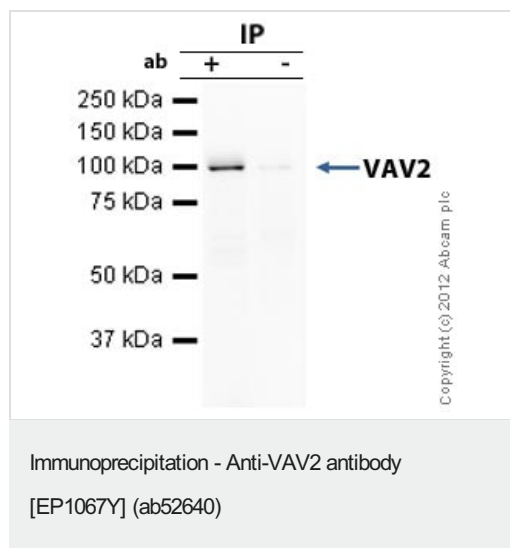
Predicted band size: 101 kDa

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 Fluor® 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.



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°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.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

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Animal-free production

Anti-VAV2 antibody [EP1067Y] (ab52640)

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