abcam

Product datasheet

Anti-HIP1 antibody [EPR10814] ab181238

KO VALIDATED Recombinant RabMAb

3 References 5 Images

Overview

Product name	Anti-HIP1 antibody [EPR10814]
Description	Rabbit monoclonal [EPR10814] to HIP1
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as **ab188140**)
Positive control	WB: HAP1, HCT-116, HeLa, Jurkat and A549 cell lysates. ICC/IF: HeLa cells.
General notes	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10814
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181238 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
ICC/IF		1/100 - 1/250.
WB		1/1000 - 1/10000. Detects a band of approximately 116 kDa (predicted molecular weight: 116 kDa).
IP		1/20 - 1/40.

Target

Function Plays a role in clathrin-mediated endocytosis and trafficking. Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner. Enhances androgen receptor (AR)-mediated transcription. May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway. Binds 3-phosphoinositides (via ENTH domain). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis. May play a functional role in the cell filament networks. May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors.

Tissue specificity Ubiquitously expressed with the highest level in brain. Expression is up-regulated in prostate and colon cancer.

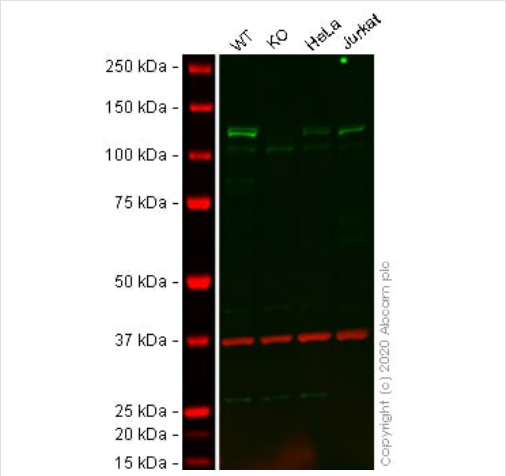
Involvement in disease Note=A chromosomal aberration involving HIP1 is found in a form of chronic myelomonocytic leukemia (CMML). Translocation t(5;7)(q33;q11.2) with PDGFRB. The chimeric HIP1-PDGFRB transcript results from an in-frame fusion of the two genes. The reciprocal PDGFRB-HIP1 transcript is not expressed.

Sequence similarities Belongs to the SLA2 family.
Contains 1 ENTH (epsin N-terminal homology) domain.
Contains 1 I/LWEQ domain.

Domain The pseudo DED region (pDED) mediates the interaction with IFT57.
Binds F-actin via the talin-like I/LWEQ domain.

Cellular localization Cytoplasm. Nucleus. Endomembrane system. Cytoplasmic vesicle > clathrin-coated vesicle membrane. Shuttles between cytoplasm and nucleus. Nuclear translocation can be induced by AR.

Images



Western blot - Anti-HIP1 antibody [EPR10814] (ab181238)

All lanes : Anti-HIP1 antibody [EPR10814] (ab181238) at 1/1000 dilution

Lane 1 : wild-type HAP1 cell lysate
Lane 2 : HIP1 knockout HAP1 cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : Jurkat cell lysate

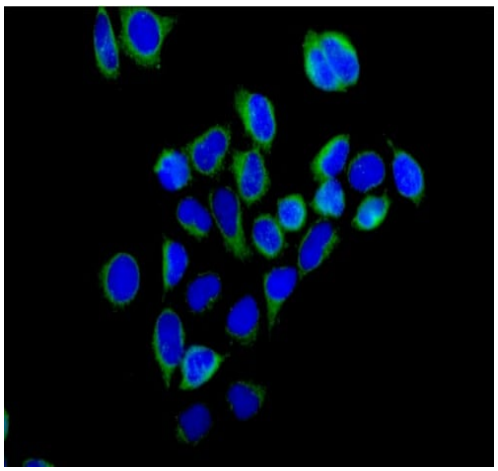
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 116 kDa
Observed band size: 116 kDa

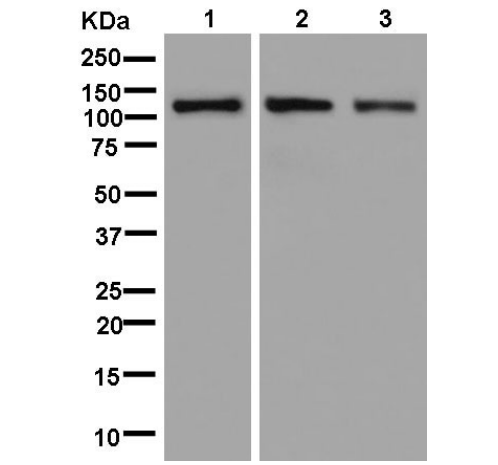
Lanes 1 - 3: Merged signal (red and green). Green - ab181238 observed at 116 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab181238 was shown to react with HIP1 in wild-type HAP1 cells in western blot with loss of signal observed in HIP1 knockout sample. Wild-type and HIP1 knockout HAP1 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab181238 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-HIP1 antibody [EPR10814] (ab181238)

Immunofluorescent analysis of HeLa cells (-20**I** Acetone-fixed) labeling HIP1 with ab181238 at 1/250 dilution, followed by Goat anti rabbit IgG (Alexa Fluor® 488) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Western blot - Anti-HIP1 antibody [EPR10814] (ab181238)

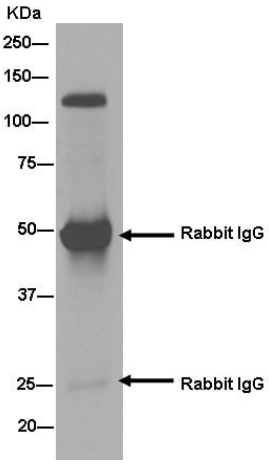
All lanes : Anti-HIP1 antibody [EPR10814] (ab181238) at 1/2000 dilution

Lane 1 : HCT-116 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 116 kDa



Immunoprecipitation - Anti-HIP1 antibody [EPR10814] (ab181238)

Western blot analysis of immunoprecipitation pellet from A549 cell lysate immunoprecipitated using ab181238 at 1/50 dilution. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution.

Anti-HIP1 antibody [EPR10814] (ab181238)

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