

Anti-PHAP1 antibody ab5991

4 References [画像数 6](#)

製品の概要

製品名	Anti-PHAP1 antibody
製品の詳細	Rabbit polyclonal to PHAP1
由来種	Rabbit
特異性	This antibody does not cross react with PHAP12a or PHAP13 isoforms.
アプリケーション	適用あり: WB, ICC/IF, IHC-P
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human PHAP1 aa 199-249 (C terminal). The exact sequence is proprietary. A peptide corresponding to 14 amino acids near the carboxy terminus of human PHAP1. (Peptide available as ab6240)
ポジティブ・コントロール	WB: Wild -type HEK-293T cell lysate. THP-1 and HeLa cell lysate.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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). Store at +4°C.
バッファー	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
精製度	DEAE-Chromatography
一次抗体 備考	Apoptosis is related to many diseases and development. Caspase-9 plays a central role in cell death induced by a variety of apoptosis activators. Cytochrome c, after released from mitochondria, binds to Apaf-1, which forms an apoptosome that in turn binds to and activate procaspase-9. Activated caspase-9 cleaves and activates the effector caspases (caspase-3, -6

and -7), which are responsible for the proteolytic cleavage of many key proteins in apoptosis. The tumor suppressor putative HLA-DR-associated proteins (PHAPs) were recently identified as important regulators of mitochondrion apoptosis. PHAP appears to facilitate apoptosome-mediated caspase-9 activation and to stimulate the mitochondrial apoptotic pathway. PHAP was also shown to oppose both Ras- and Myc-mediated cell transformation.

ポリモノ

ポリクローナル

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ab5991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		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 32 kDa.
ICC/IF		Use a concentration of 20 µg/ml.
IHC-P		Use a concentration of 2 µg/ml.

ターゲット情報

機能

Implicated in a number of cellular processes, including proliferation, differentiation, caspase-dependent and caspase-independent apoptosis, suppression of transformation (tumor suppressor), inhibition of protein phosphatase 2A, regulation of mRNA trafficking and stability in association with ELAVL1, and inhibition of acetyltransferases as part of the INHAT (inhibitor of histone acetyltransferases) complex. Plays a role in E4F1-mediated transcriptional repression.

組織特異性

Expressed in all tissues tested. Highly expressed in kidney and skeletal muscle, moderate levels of expression in brain, placenta and pancreas, and weakly expressed in lung. Found in all regions of the brain examined (amygdala, caudate nucleus, corpus callosum, hippocampus and thalamus), with highest levels in amygdala.

配列類似性

Belongs to the ANP32 family.
Contains 4 LRR (leucine-rich) repeats.
Contains 1 LRRCT domain.

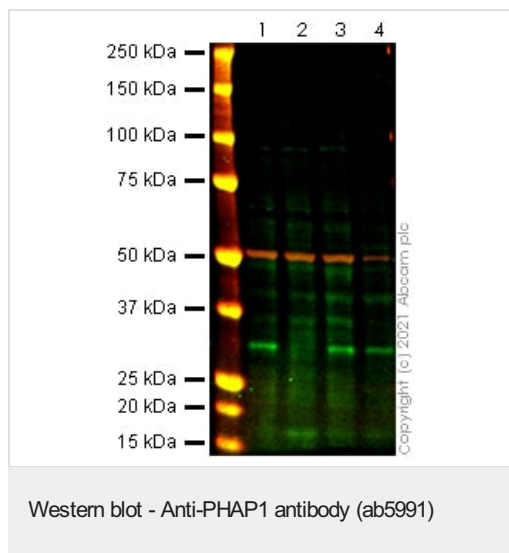
翻訳後修飾

Phosphorylated on serine residues.
The N-terminus is blocked.
Some glutamate residues are glycosylated by TTLL8. This modification occurs exclusively on glutamate residues and results in a glycine chain on the gamma-carboxyl group.

細胞内局在

Nucleus. Cytoplasm. Endoplasmic reticulum. Translocates to the cytoplasm during the process of neuritogenesis (By similarity). Shuttles between nucleus and cytoplasm.

画像



All lanes : Anti-PHAP1 antibody (ab5991) at 0.5 µg/ml

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : ANP32A knockout HEK-293T cell lysate

Lane 3 : HeLa cell lysate

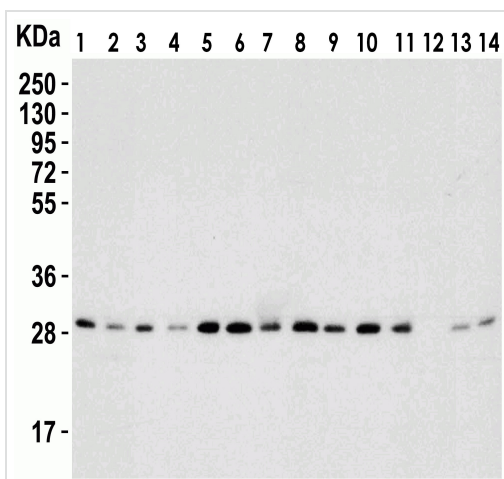
Lane 4 : THP-1 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 33 kDa

False colour image of Western blot: Anti-PHAP1 antibody staining at 0.5 ug/ml, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab5991 was shown to bind specifically to PHAP1. A band was observed at 33 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in ANP32A knockout cell line [ab266148](#) (knockout cell lysate [ab258303](#)). To generate this image, wild-type and ANP32A knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-PHAP1 antibody (ab5991)

All lanes : Anti-PHAP1 antibody (ab5991) at 1 µg/ml

Lane 1 : 293 cell lysate

Lane 2 : A431 cell lysate

Lane 3 : A549 cell lysate

Lane 4 : CaCo-2 cell lysate

Lane 5 : Daudi cell lysate

Lane 6 : HeLa cell lysate

Lane 7 : HepG2 cell lysate

Lane 8 : K562 cell lysate

Lane 9 : MCF-7 cell lysate

Lane 10 : Jurkat cell lysate

Lane 11 : SK-N-SH cell lysate

Lane 12 : THP-1 cell lysate

Lane 13 : NIH/3T3 cell lysate

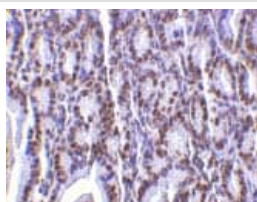
Lane 14 : YB2/0 cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

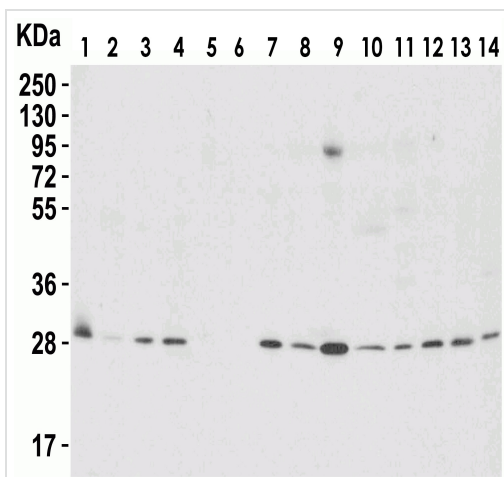
All lanes : HRP-conjugated goat anti-rabbit IgG at 1/10000 dilution

Incubated with the primary antibody for 1 hour at room temperature in 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHAP1 antibody (ab5991)

ab5991 at 2µg/ml staining PHAP1 in mouse small intestine tissue by IHC



Western blot - Anti-PHAP1 antibody (ab5991)

All lanes : Anti-PHAP1 antibody (ab5991) at 1 µg/ml

Lane 1 : Mouse heart tissue lysate

Lane 2 : Mouse pancreas tissue lysate

Lane 3 : Mouse testis tissue lysate

Lane 4 : Mouse liver tissue lysate

Lane 5 : Mouse spleen tissue lysate

Lane 6 : Mouse kidney tissue lysate

Lane 7 : Mouse colon tissue lysate

Lane 8 : Mouse stomach tissue lysate

Lane 9 : Mouse brain tissue lysate

Lane 10 : Mouse skin tissue lysate

Lane 11 : Mouse skeletal muscle tissue lysate

Lane 12 : Mouse bladder tissue lysate

Lane 13 : Mouse lung tissue lysate

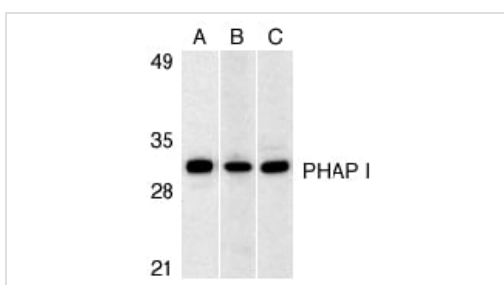
Lane 14 : K562 cell lysate

Lysates/proteins at 15 µg/ml per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/10000 dilution

Incubated with the primary antibody for 1 hour at room temperature in 5% NFDm/TBST.



Western blot - Anti-PHAP1 antibody (ab5991)

Western blot analysis of PHAP I expression in human Raji cell (A), mouse (B) and rat (C) testis tissue lysates with anti-PHAP I at 1 µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-PHAP1 antibody (ab5991)

Immunofluorescence of PHAP I in mouse small intestine cells using ab5991 at 20µg/ml.

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