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Datasheet for 600-401-DL8

PHAP I Antibody

Overview

Description:	Anti-PHAP I (RABBIT) Antibody - 600-401-DL8
Item No.:	600-401-DL8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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-medicated caspase-9 activation and to stimulate the mitochondrial apoptotic pathway. PHAP was also shown to oppose both Ras- and Myc-medicated cell transformation.
Synonyms:	PHAP I Antibody, LANP, MAPM, PP32, HPPCn, PHAP1, PHAPI, I1PP2A, C15orf1, LANP, Acidic leucine-rich nuclear phosphoprotein 32 family member A, Acidic nuclear phosphoprotein pp32
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ANP32A
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PHAP I antibody was raised with a synthetic peptide corresponding to amino acids at C-terminus of human PHAP I.
Purity/Specificity:	Anti-PHAP I Antibody is DEAE purified. This polyclonal antibody has no cross-reaction to PHAP I2a and PHAP III.
Relevant Links:	• UniProtKB - P39687 • GeneID - 8125 • NCBI - P39687

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PHAP I Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 29 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	2 µg/mL
WB:	1 µg/mL

Formulation

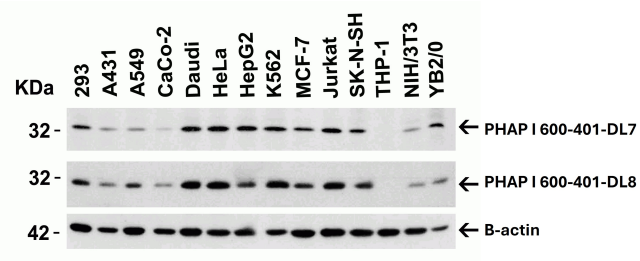
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

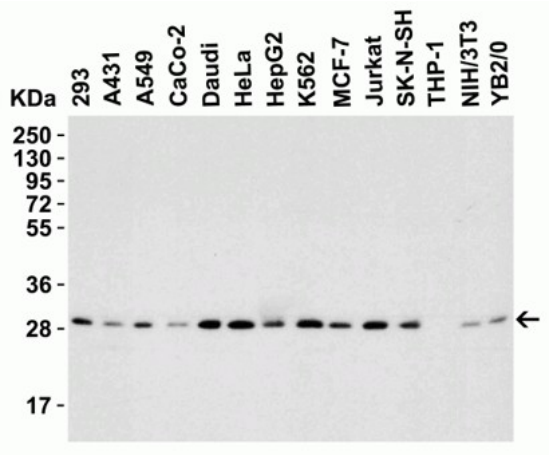
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

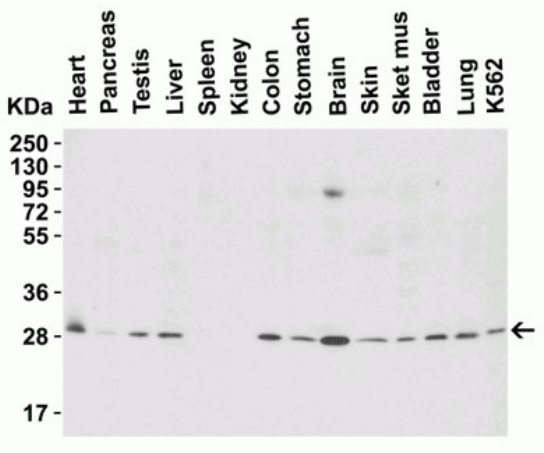
Images



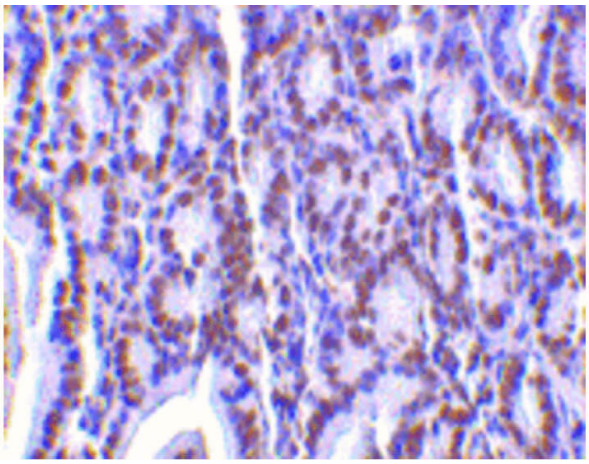
Western Blot
Western Blot using PHAP I. Loading: 15 µg of lysates per lane.
Antibodies: PHAP I p/n 600-401-DL7 (2 µg/mL), PHAP I p/n 600-401-DL8 (1 µg/mL), and beta-actin (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



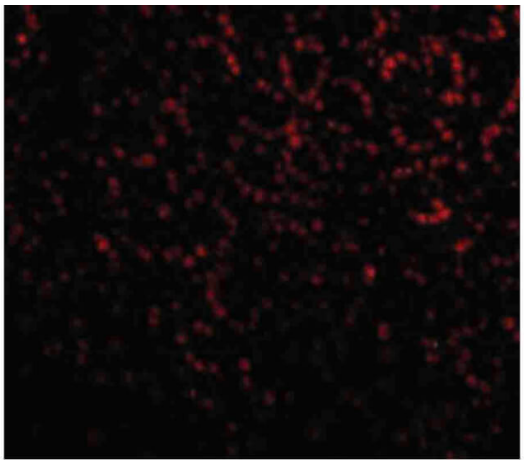
Western Blot
Western Blot Validation in Human, Mouse and Rat Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: PHAP I (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



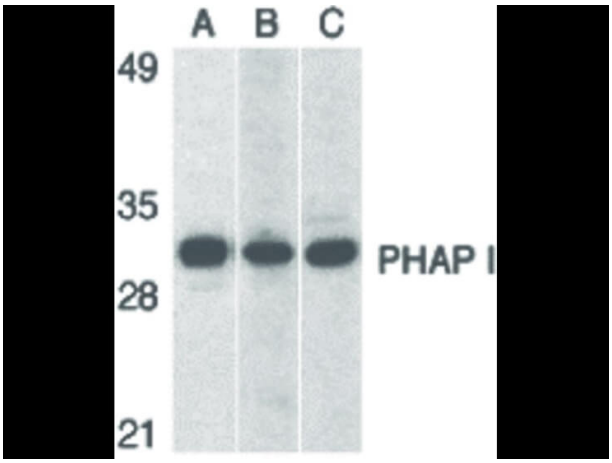
Western Blot
Western Blot Validation in Mouse Tissues. Loading: 15 µg of lysates per lane. Antibodies: PHAP I (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry
Immunohistochemistry of PHAP I antibody. Tissue: mouse small intestine tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PHAP I antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: PHAP I is stained with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of PHAP I antibody. Cell Type: mouse small intestine cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PHAP I antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PHAP I is nuclear and cytoplasmic. Staining: PHAP I as red fluorescent signal.



Western Blot
Western Blot of PHAP I antibody. Lane A: human Raji cell. Lane B: mouse testis tissue lysates. Lane C: rat testis tissue lysates. Load: 35 µg per lane. Primary antibody: PHAP I antibody at 1 µg/ml for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 20 kDa, 32 kDa for PHAP I. Other band(s): PHAP I splice variants and isoforms.

Disclaimer

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