Datasheet for 600-401-DL7

PHAP I Antibody

Overview

Description:	Anti-PHAP I (RABBIT) Antibody - 600-401-DL7
Item No.:	600-401-DL7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
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
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PHAP I antibody was raised with a synthetic peptide corresponding to amino acids close to C-terminus of human PHAP I. This sequence is identical between human and rat 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, Immunocytochemistry 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 - 1:20,000
IF:	10 µg/mL
WB:	1-2 µg/mL

Formulation

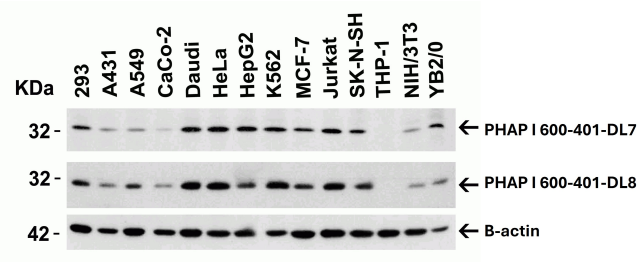
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

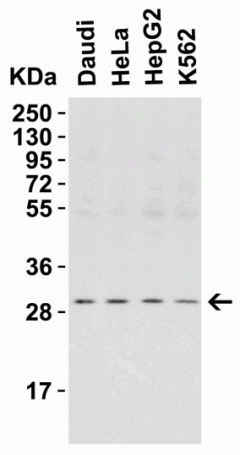
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

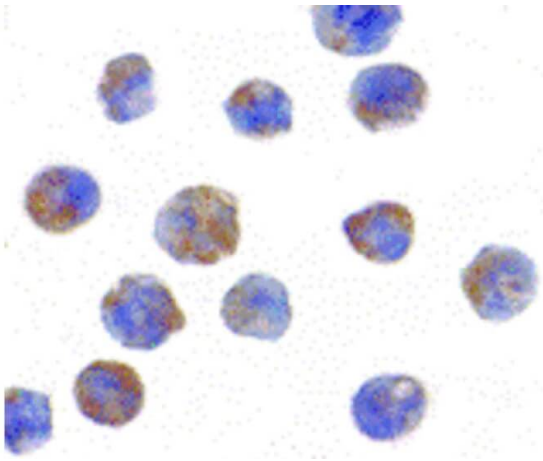
Images



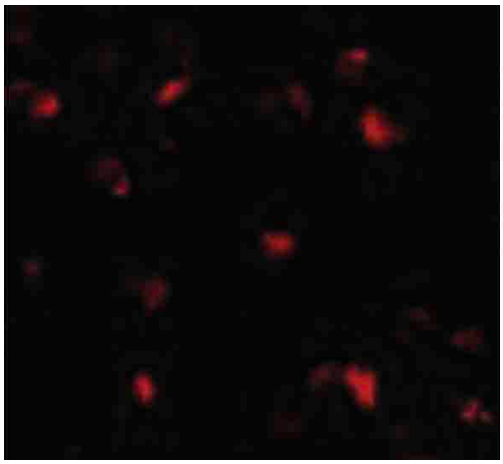
Western Blot
Western Blot using PHAP I. Loading: 15 µg of lysates per lane.
Antibodies: PHAP I p/n 600-401-DL7 (2 µg/mL), PHAP I p/n 600-401-DL8 (1 µg/mL), and beta-actin (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



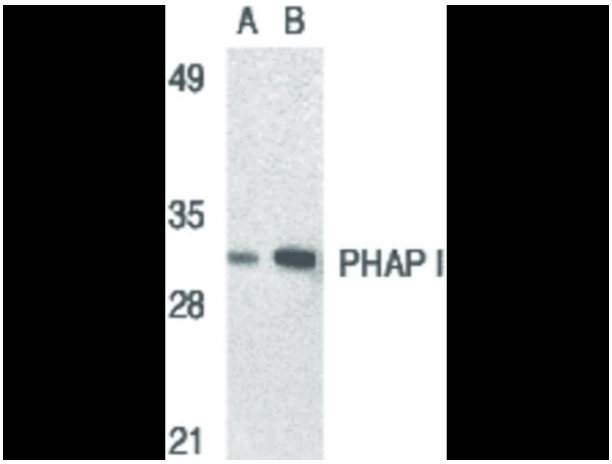
Western Blot
Western Blot Validation. Loading: 15 µg of human cell lysates per lane. Antibodies: PHAP I (2 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry
Immunocytochemistry of PHAP I antibody. Cell Type: Raji cells. 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. Localization: PHAP I is nuclear, cytoplasmic, and endoplasmic reticular. Staining: PHAP I is stained brown with hematoxylin purple counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of PHAP I antibody. Cell Type: Raji cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PHAP I antibody at 10 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, cytoplasmic, and endoplasmic reticular. Staining: PHAP I as red fluorescent signal.



Western Blot
Western Blot of PHAP I antibody. Lane A: human Raji cell lysate at 2 µg/ml. Lane B: human Raji cell lysate at 4 µg/ml. Load: 35 µg per lane. 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: 32 kDa, 29 kDa for PHAP I. Other band(s): PHAP I splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.