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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

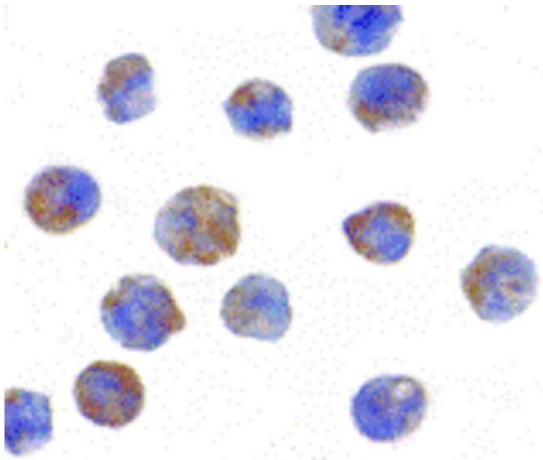
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

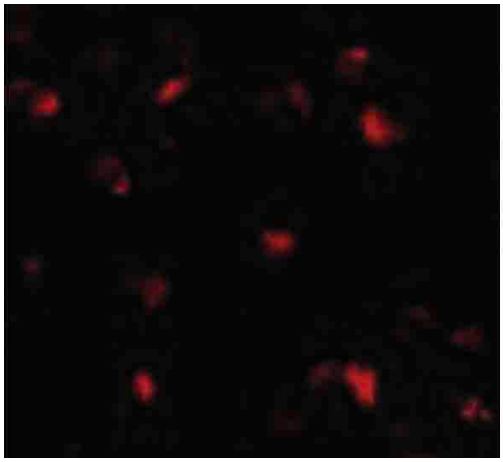
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

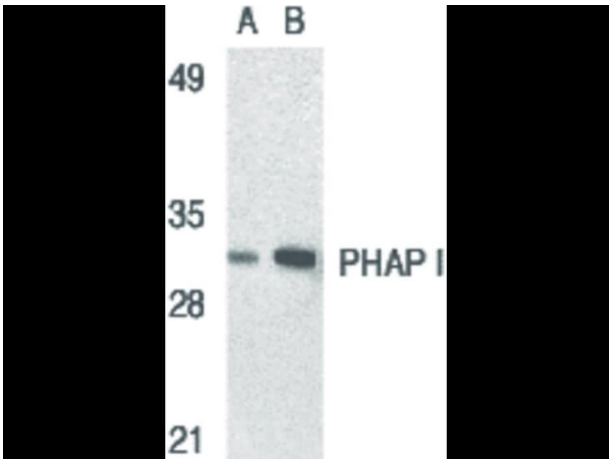
Images



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.

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