

PHAP Antibody

PHAP (CT): Putative HLA-DR-associated protein I

CATALOG No.: 3152

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 (1). 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.

SOURCE:

Rabbit polyclonal PHAP antibody was raised with a synthetic peptide corresponding to amino acids at carboxy terminus of human PHAP I (GenBank Accession number P39687).

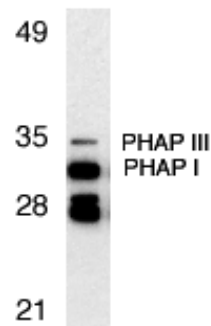
APPLICATION:

PHAP antibody can be used for detection of PHAP I and PHAP III by Western blot at 0.5 to 2 µg/ml. (Optimal dilution should be determined by user.) Raji cell lysate can be used as a positive control and bands at approximately 35 kDa and 32 kDa can be detected. PHAP antibody is human, mouse and rat reactive.

For research use only.

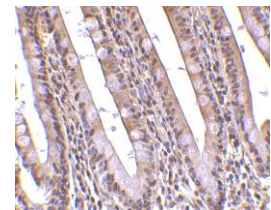
STORAGE:

PHAP antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of PHAP expression in human Raji cell lysate with PHAP antibody at 1 µg/ml. The two bands below PHAP I might be differently spliced isoforms of PHAP.

Immunohistochemistry of PHAP in human small intestine tissue with PHAP antibody at 10 µg/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **3152P**.
Raji Cell Lysate, Catalog No. **1207**.
Apaf-1 Antibody (CT), Catalog No. **2015**.
Caspase 9 Antibody (IN1), Catalog No. **2071**.

Catalog No.	Isoform	Species
3145	I	H M
3147	III	H M R
3149	I I2a III	H M R
3151	I	H M R
3152	I III	H M R

REFERENCES:

- Jiang X, Kim HE, Shu H, et al. Distinctive roles of PHAP proteins and prothymosin- α in a death regulatory pathway. *Science* 2003; 299:223-6.
- Nicholson DW and Thornberry NA. Apoptosis. Life and death decisions. *Science* 2003; 299:214-5.

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