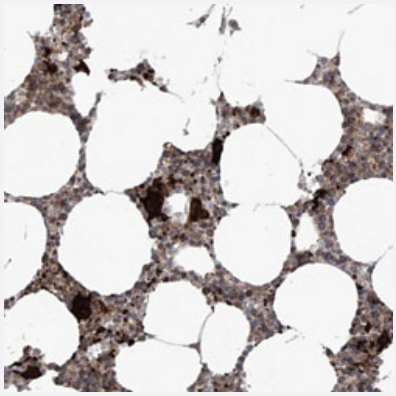
APAF1 polyclonal antibody

Catalog # PAB31168 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human bone marrow with APAF1 polyclonal antibody (Cat # PAB31168) shows strong cytoplasmic positivity in hematopoietic cells.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human APAF1.
Immunogen	Recombinant protein corresponding to human APAF1.
Sequence	PLVVSLIGALLRDFPNRWEYYLKQLQNKQFKRIRKSSSYDYEALDEAMSISVEMLREDIKDYYTDLSI LQKDVKVPTKVLCILWDMETEEVEDILQEFVNKSLLFCDR
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

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Storage Instruction	Store at 4°C for short term storage. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — APAF1

Entrez GeneID	317
Protein Accession#	O14727
Gene Name	APAF1
Gene Alias	CED4, DKFZp781B1145
Gene Description	apoptotic peptidase activating factor 1
Omim ID	602233
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cytoplasmic protein that initiates apoptosis. This protein contains several co pies of the WD-40 domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome binds and cleaves caspase 9 preproprotein, releasing its mature, activated form. Ac tivated caspase 9 stimulates the subsequent caspase cascade that commits the cell to apoptosis . Alternative splicing results in several transcript variants encoding different isoforms. [provided by RefSeq
Other Designations	apoptotic protease activating factor 1

Publication Reference

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- Exosomal transfer of stroma-derived miR21 confers paclitaxel resistance in ovarian cancer cells through targeting APAF1.

  Au Yeung CL, Co NN, Tsuruga T, Yeung TL, Kwan SY, Leung CS, Li Y, Lu ES, Kwan K, Wong KK, Schmandt R, Lu KH, Mok SC.

  Nature Communications 2016 Mar; 7:11150.

  Application: IHC-P, WB-Tr, Human, Mouse, Human ovarian cancer, Mouse tumors, OVCA 432, SKOV3 cells

- Retrotransposon insertions in the clonal evolution of pancreatic ductal adenocarcinoma.

  Rodić N, Steranka JP, Makohon-Moore A, Moyer A, Shen P, Sharma R, Kohutek ZA, Huang CR, Ahn D, Mita P, Taylor MS, Barker NJ, Hruban RH, Iacobuzio-Donahue CA, Boeke JD, Burns KH.

  Nature Medicine 2015 Sep; 21(9):1060.

  Application: IHC-P, Human, Human pancreatic ductal adenocarcinoma

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Apoptosis
- p53 signaling pathway
- Small cell lung cancer

Disease

- Adenocarcinoma
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Cardiovascular Diseases
- Clubfoot
- Depressive Disorder
- Diabetes Mellitus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease

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- Leukemia
- Lung Neoplasms
- NARP
- Neovascularization
- Pulmonary Disease
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Werner syndrome

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