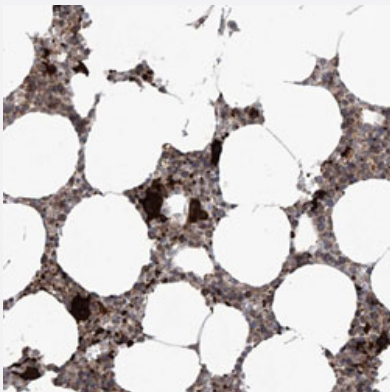


APAF1 polyclonal antibody

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	PLVVSLLIGALLRDFPNRWEYLLKQLQNKQFKRIRKSSSYDYALDEAMSISVEMLREDIKDYTDLSI LQKDKVKVPTKVLCLWDMETEEVEDILQEFVNKSLFCDR
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).

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 should be handled by trained staff only.

Applications

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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 copies 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. Activated 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

- [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](#)

- [Leukemia](#)
- [Lung Neoplasms](#)
- [NARP](#)
- [Neovascularization](#)
- [Pulmonary Disease](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)