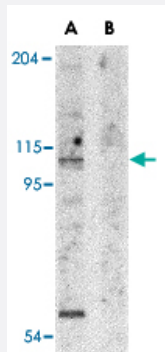


APAF1 polyclonal antibody

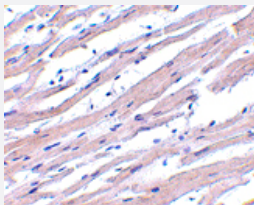
Catalog # PAB13075 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of APAF1 in K-562 cell lysate with APAF1 polyclonal antibody (Cat # PAB13075) at 1 ug/mL in the (A) absence and (B) presence of blocking peptide.



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

Immunohistochemistry of APAF1 in human heart tissue with APAF1 polyclonal antibody (Cat # PAB13075) at 1 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of APAF1.
Immunogen	A synthetic peptide corresponding to N-terminus of human APAF1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	The sequences of the immunogenic peptide are identical between human and mouse.
Form	Liquid

Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. 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

- Western Blot (Cell lysate)

Western blot analysis of APAF1 in K-562 cell lysate with APAF1 polyclonal antibody (Cat # PAB13075) at 1 ug/mL in the (A) absence and (B) presence of blocking peptide.

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

Immunohistochemistry of APAF1 in human heart tissue with APAF1 polyclonal antibody (Cat # PAB13075) at 1 ug/mL .

Gene Info — APAF1

Entrez GeneID	317
Protein Accession#	AAC51678
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

- [Apaf1 \(CED-4 homolog\) regulates programmed cell death in mammalian development.](#)

Cecconi F, Alvarez-Bolado G, Meyer BI, Roth KA, Gruss P.

Cell 1998 Sep; 94(6):727.

- [Bcl-XL interacts with Apaf-1 and inhibits Apaf-1-dependent caspase-9 activation.](#)

Hu Y, Benedict MA, Wu D, Inohara N, Nunez G.

PNAS 1998 Apr; 95(8):4386.

Application: Func, Human, HEK 293T cells

- [Cytochrome c and dATP-dependent formation of Apaf-1/caspase-9 complex initiates an apoptotic protease cascade.](#)

Li P, Nijhawan D, Budihardjo I, Srinivasula SM, Ahmad M, Alnemri ES, Wang X.

Cell 1997 Nov; 91(4):479.

Application: WB, Human, HeLa cells

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](#)