



# Apaf-1 Polyclonal Antibody

<b>Catalog No</b>	BYab-00576
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	APAF1
<b>Protein Name</b>	Apoptotic protease-activating factor 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human APAF1. AA range:501-550
<b>Specificity</b>	Apaf-1 Polyclonal Antibody detects endogenous levels of Apaf-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	APAF1; KIAA0413; Apoptotic protease-activating factor 1; APAF-1
<b>Observed Band</b>	135kD
<b>Cell Pathway</b>	Cytoplasm .
<b>Tissue Specificity</b>	Ubiquitous. Highest levels of expression in adult spleen and peripheral blood leukocytes, and in fetal brain, kidney and lung. Isoform 1 is expressed in heart, kidney and liver.
<b>Function</b>	domain:The CARD domain mediates interaction with APIP.,function:Oligomeric Apaf-1 mediates the cytochrome c-dependent autocatalytic activation of pro-caspase-9 (Apaf-3), leading to the activation of caspase-3 and apoptosis. This activation requires ATP. Isoform 6 is less effective in inducing apoptosis.,induction:By E2F and p53 in apoptotic neurons.,similarity:Contains 1 CARD domain.,similarity:Contains 1 NB-ARC domain.,similarity:Contains 13 WD repeats.,subunit:Monomer. Oligomerizes upon binding of cytochrome c and dATP. Oligomeric Apaf-1 and pro-caspase-9 bind to each other via their respective NH2-terminal CARD domains and consecutively mature caspase-9 is released from the complex. Pro-caspase-3 is recruited into the

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Apaf-1-pro-caspase-9 complex via interaction with pro-caspase-9. Interacts with AIP1.,tissue specificity:Ubiquitous. Highest levels of expression in adult spleen and per

### Background

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, Jul 2008],

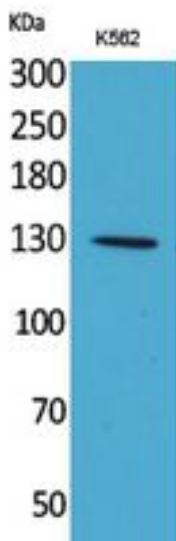
### matters needing attention

Avoid repeated freezing and thawing!

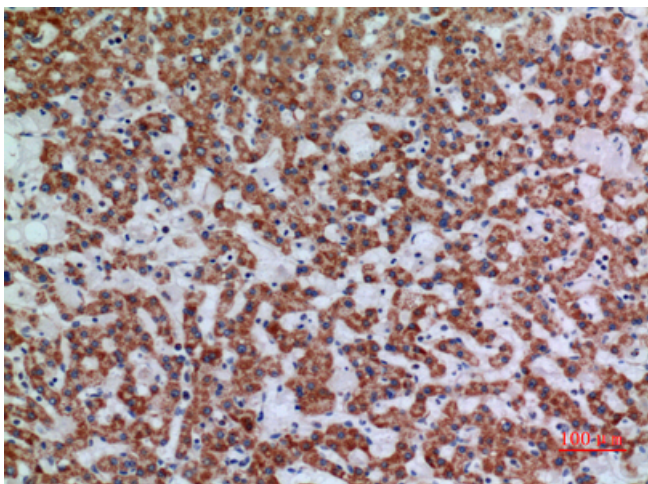
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

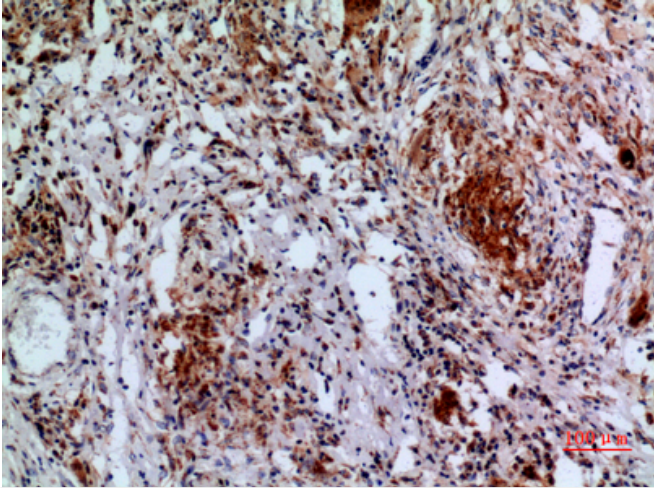


Western Blot analysis of K562 cells using Apaf-1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

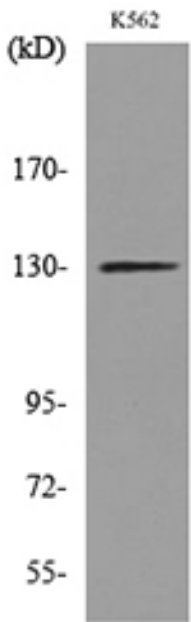


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

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Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Western blot analysis of lysate from K562 cells, using APAF1 Antibody.