SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-APAF1 (CT)/Biotin Conjugated antibody

Catalog Number: SL0058R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-APAF1(CT)/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human Apaf-1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ELISA=1:100-1000 IHC-P=1:50-200 IHC-F=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Horse,Danio rerio)
Background:	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]. **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. **Subunit:** Monomer. Oligomerizes upon binding of cytochrome c and dATP. Oligomeric Apaf-1 and pro-caspase-9 bind to each other via their respective

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	NH2-terminal CARD domains and consecutively mature caspase-9 is released from the complex. Pro-caspase-3 is recruited into the Apaf-1-pro-caspase-9 complex via interaction with pro-caspase-9. Interacts with APIP. Interacts (via CARD and NACHT domains) with NAIP/BIRC1 (via NACHT domain). **Subcellular Location:** Cytoplasm. **Tissue Specificity:** 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. **Similarity:** Contains 1 CARD domain. Contains 1 NB-ARC domain. Contains 13 WD repeats. **Database links:** **Entrez Gene:** 317 Human **Entrez Gene:** 11783 Mouse **Entrez Gene:** 78963 Rat Omim: 602233 Human **SwissProt:** O14727 Human **SwissProt:** O88879 Mouse **SwissProt:** Q9EPV5 Rat **Unigene:** 728891 Human **Unigene:** 220289 Mouse **Unigene:** 64522 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Apaf1 is also known as Apoptosis protease activating factor-1. It regulates the auto-catalyzes activity of cytochrome C-dependent procaspase-9, leading to the activation of Caspase-3 and the induction of apoptosis. Apaf-1 is expressed at high levels in adult thymus, peripheral blood leukocytes, placenta, kidney, and fetal brain, placenta, and kidney.

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