

# Rabbit Anti-APAF1(NT) antibody

SL0059R

Product Name:	APAF1(NT)
Chinese Name:	凋亡蛋白活性因子-1抗体(N端)
Alias:	APAF 1; APAF1; APAF-1; Apoptotic peptidase activating factor 1; Apoptotic protease
	activating factor; CED 4; CED4; KIAA0413; APAF_HUMAN; Apoptotic protease-
	activating factor 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Cow, Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=0.2ug/testIF=1:100-
	500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	137kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Apaf-1:13-80/1248
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 procaspase-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 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.

SWISS: 014727

Gene ID: 317

#### Database links:

Entrez Gene: 317Human

Entrez Gene: 11783Mouse

Entrez Gene: 78963Rat

Omim: 602233Human

SwissProt: O14727Human

SwissProt: 088879Mouse

SwissProt: Q9EPV5Rat





