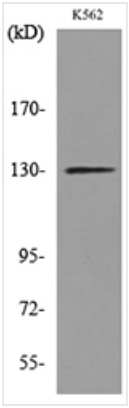
APAF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APAF1, Polyclonal Antibody
Full Product Name	APAF1 Antibody
Product Gene Name	anti-APAF1 antibody
Product Synonym Names	APAF1; KIAA0413; Apoptotic protease-activating factor 1; APAF-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using peptide.
Concentration	1 mg/ml (lot specific)
Specificity	APAF1 Antibody detects endogenous levels of APAF1 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	130 kDa
OMIM	AF013263 mRNA
3D Structure	ModBase 3D Structure for O14727
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human APAF1.
Immunogen Range	501-550
Applications Tested/Suitable for anti-APAF1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-APAF1 antibody	WB: 1:500~1:1000 ELISA: 1:10000
Related Product Information for anti-APAF1 antibody	MBS9507423 is an antibody targeting APAF1. Also known as APAF1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-APAF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-APAF1 antibody
Western blot analysis of lysate from K562 cells, using APAF1 Antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APAF1. It may not necessarily be applicable to this product.

NCBI GI #	4502123
NCBI GeneID	317
NCBI Accession #	NP_001151.1
UniProt Primary Accession #	O14727
UniProt Secondary Accession #	O43297; Q7Z438; Q9BXZ6; Q9UBZ5; Q9UGN8; Q9UGN9; Q9UGP0; Q9UJ58; Q9UJ59; Q9UJ60; B2RMX8
UniProt Related Accession #	O14727
GenBank Nucleotide #	NM_001160.2
NCBI Official Full Name	apoptotic protease-activating factor 1 isoform b
NCBI Official Synonym Full Names	apoptotic peptidase activating factor 1
NCBI Official Symbol	APAF1
NCBI Official Synonym Symbols	CED4; APAF-1
UniProt Protein Name	Apoptotic protease-activating factor 1
Protein Family	Apoptotic protease-activating factor
UniProt Gene Name	APAF1
UniProt Synonym Gene Names	KIAA0413; APAF-1
NCBI Protein Information	apoptotic protease-activating factor 1
NCBI Summary for APAF1	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]
UniProt Comments for APAF1	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.
Research Articles on APAF1	**1.** Loss of APAF-1 expression is associated with early recurrence in stage I-III colorectal cancer, suggesting that APAF-1 may have clinical value as a predictive marker of early recurrence.

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