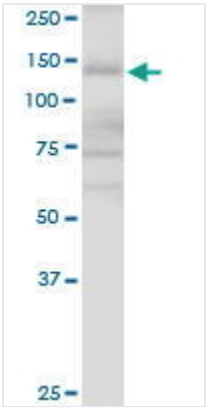
APAF1 Antibody – Rabbit Polyclonal

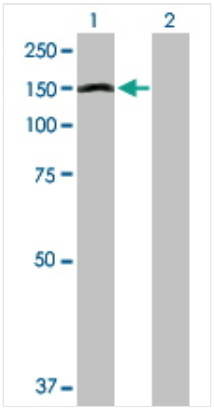
PRODUCT OVERVIEW

Product Name	APAF1, Polyclonal Antibody
Full Product Name	APAF1 (Apoptotic Protease-activating Factor 1, APAF-1, KIAA0413) (FITC)
Product Gene Name	anti-APAF1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human APAF1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	141,840 Da
Chromosome Location	Chromosome: 12; NC_000012.12 (98645228..98735433). Location: 12q23
OMIM	602233
3D Structure	ModBase 3D Structure for O14727
Immunogen	Full length human APAF1, aa1-1205 (NP_863658.1).
Immunogen Sequence	MDAKARNCLLQHREALEKDIKTSYIMDHMISDGFLTISEEEKVRNEPTQQQRAAMLIKMILKKDNDSYVSFYNALLHEGYKDLAALLHDGIPVVSSSSGKDS
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-APAF1 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-APAF1 antibody	Western Blot (WB)
Application Notes for anti-APAF1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-APAF1 antibody	Apaf1 has been described as the core of the apoptosome. Deficiency in murine Apaf1 leads to embryonic lethality with a phenotype affecting many asp
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 neces
Searchable Terms for APAF1 purchase	MBS6369982 is an antibody targeting APAF1. Also known as APAF1 (Apoptotic Protease-activating Factor 1, APAF-1, KIAA0413) (FITC). Reactive in



Western Blot (WB) of anti-APAF1 antibody
APAF1 rabbit polyclonal antibody. Western Blot analysis of APAF1 expression in K-562.



Western Blot (WB) of anti-APAF1 antibody
Western Blot analysis of APAF1 expression in transfected 293T cell line by APAF1 polyclonal antibody. Lane 1: APAF1 transfected lysate (137.1kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	32483361
NCBI GeneID	317
NCBI Accession #	NP_863658.1
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_181868
NCBI Official Full Name	apoptotic protease-activating factor 1 isoform d
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
UniProt Entry Name	APAF_HUMAN
NCBI Protein Information	apoptotic protease-activating factor 1

UniProt Comments for APAF1	APAF: 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. 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). By E2F and p53/TP53 in apoptotic neurons. 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. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis Chromosomal Location of Human Ortholog: 12q23 Cellular Component: cytosol; nucleus; apoptosome Molecular Function: identical protein binding; protein binding; nucleotide binding; caspase activator activity; ADP binding; ATP binding Biological Process: regulation of apoptosis; caspase activation; nervous system development; neuron apoptosis; positive regulation of apoptosis; apoptosis; neural tube closure; forebrain development; caspase activation via cytochrome c
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