

APAF1 Antibody
Rabbit mAb
Catalog # AP90307

Specification

APAF1 Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	O14727
Clonality	Monoclonal
Other Names	
APAF; APAF-1; APAF1; apoptotic peptidase activating factor 1; apoptotic protease activating factor 1; Apoptotic protease-activating factor 1; CED4; DKFZp781B1145; KIAA0413	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	141840 Da

APAF1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human APAF1
Description	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. Induced by E2F and p53 in apoptotic neurons. 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. 6 isoforms of the human protein are produced by alternative splicing.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

APAF1 Antibody - Protein Information

Name APAF1 ([HGNC:576](#))

Synonyms KIAA0413

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.

Cellular Location

Cytoplasm.

Tissue Location

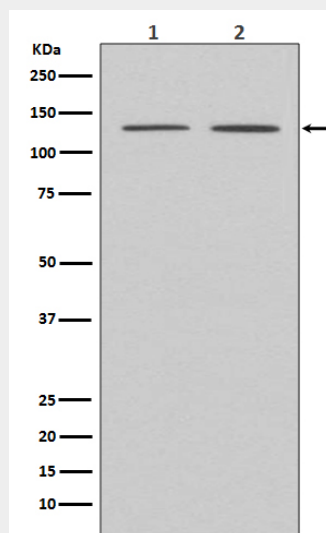
Ubiquitous. Highest levels of expression in adult spleen and peripheral blood leukocytes, and in fetal brain, kidney and lung. Isoform 1 is expressed in heart, kidney and liver

APAF1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

APAF1 Antibody - Images



Western blot analysis of APAF1 expression in (1) HeLa cell lysate; (2) MCF-7 cell lysate.