

APAF1 Antibody

Rabbit mAb

Catalog # AP90307

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	O14727
Reactivity	Human, Mouse
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

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
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.

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.

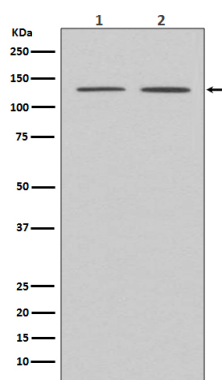
Cellular Location

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

Images



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

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Immunohistochemical analysis of paraffin-embedded mouse kidney, using APAF1 Antibody .

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