

Apaf-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10011**Specification**

Apaf-1 Antibody - Product Information

Application	WB
Primary Accession	O14727
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Bovine, Horse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	141840

Apaf-1 Antibody - Additional Information**Gene ID** 317

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The immunoaffinity purified antibody detects a 130 kDa protein, corresponding to the apparent molecular weight of Apaf-1 on SDS-PAGE immunoblots.
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Other Names

APAF1, CED4, DKFZp781B1145, KIAA0413

Target/Specificity

Apaf-1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) immunoaffinity purified, rabbit anti-Apaf-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.05% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Apaf-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Apaf-1 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.

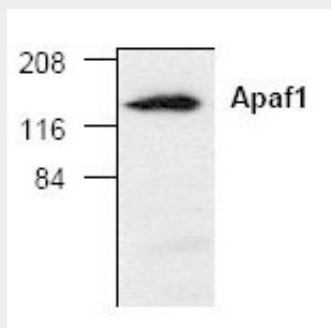
Tissue Location

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

Apaf-1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Apaf-1 Antibody - Images

Western blot analysis of Apaf1 expression in human heart tissue lysate.

Apaf-1 Antibody - Background

During apoptosis, Apaf-1 (apoptosis protease activating factor 1) binds to cytochrome c (Apaf-2), a reaction that requires dATP, and this leads to the formation of a large multimeric complex. The

complex recruits pro-caspase-9, and activates caspase-9 (Apaf-3). Activated caspase-9 in turn cleaves and activates caspase-3, one of the proteases responsible for the proteolytic cleavage of many key proteins in apoptosis. Apaf-1 is ubiquitously expressed in human tissues.