

## Rabbit anti-Human, Mouse APAF1 Monoclonal Antibody | anti-APAF1 antibody

Anti-APAF1 Rabbit Monoclonal Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                                |
|-----------|--------|--------------|-----------------------------------------------------------------------------|
| AAA47000  | Rabbit | Human, Mouse | Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence |

### PRODUCT SYNONYMS

APAF1; Monoclonal Antibody; Anti-APAF1 Rabbit Monoclonal Antibody; Apoptotic protease-activating factor 1; APAF-1; KIAA0413; anti-APAF1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                     |
| Reactivity                                      | Human, Mouse                                                                                                                                                                                               |
| Clonality                                       | Monoclonal                                                                                                                                                                                                 |
| Purity/Purification                             | Affinity-chromatography                                                                                                                                                                                    |
| Form/Format                                     | Liquid                                                                                                                                                                                                     |
| Sequence Length                                 | 338                                                                                                                                                                                                        |
| Applicable Applications for anti-APAF1 antibody | WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence)                                                                                                          |
| Immunogen                                       | A synthesized peptide derived from human APAF1                                                                                                                                                             |
| Subcellular Localization                        | Cytoplasm.                                                                                                                                                                                                 |
| Tissue Specificity                              | 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.                          |
| Contents                                        | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                          |
| Preparation and Storage                         | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



#### WB (Western Blot)

Western blot analysis of APAF1 expression in (1) HeLa cell lysate; (2) MCF-7 cell lysate (AAA47000). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-APAF1 monoclonal antibody overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for APAF1



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse kidney, using APAF1 Antibody (AAA47000). APAF1 was detected in paraffin-embedded tissue section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-APAF1 Antibody (AAA47000) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-APAF1 antibody | 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. |
| Product Categories/Family for anti-APAF1 antibody   | Cell Biology; Apoptosis; Mitochondrial; Cancer; Invasion/Microenvironment; Cytochrome C; Metabolism; Pathways and Processes; Mitochondrial Metabolism; Mitochondrial Markers; Metabolism Processes; Cell Death; Apoptotic Markers                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4502123                                                                                        |
| NCBI GeneID                      | 317                                                                                            |
| NCBI Accession #                 | NP_001151.1                                                                                    |
| NCBI GenBank Nucleotide #        | NM_001160.2                                                                                    |
| UniProt Accession #              | O14727; O43297; Q7Z438; Q9BXZ6; Q9UBZ5; Q9UGN8; Q9UGN9; Q9UGP0; Q9UJ58; Q9UJ59; Q9UJ60; B2RMX8 |
| Molecular Weight                 | 141840 MW                                                                                      |
| 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                                                                                   |
| NCBI Protein Information         | apoptotic protease-activating factor 1                                                         |
| UniProt Protein Name             | Apoptotic protease-activating factor 1                                                         |
| UniProt Gene Name                | APAF1                                                                                          |
| UniProt Synonym Gene Names       | KIAA0413; APAF-1                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.