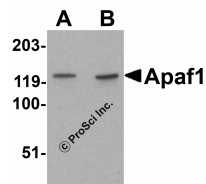


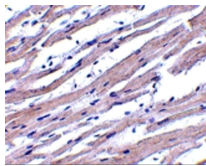


Apaf1 Antibody

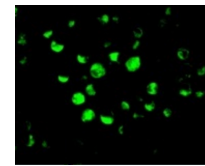
Cat. No.: 2013



Western blot analysis of Apaf1 in K562 cell lysate with Apaf1 antibody at 1 $\mu\text{g}/\text{mL}$ in the (A) absence and (B) presence of blocking peptide.



Immunohistochemistry of Apaf1 in human heart tissue with Apaf1 antibody at 1 $\mu\text{g}/\text{mL}$.



Immunofluorescence of Apaf1 in K562 cells with Apaf1 antibody at 10 $\mu\text{g}/\text{mL}$.

Ψ Specifications

| | |
|-----------------------------|---|
| HOST SPECIES: | Rabbit |
| SPECIES REACTIVITY: | Human, Mouse, Rat |
| IMMUNOGEN: | Apaf1 antibody was raised against a peptide corresponding to amino acids near the amino terminus of human Apaf1. The sequences of the immunogenic peptide are identical between human and mouse. The immunogen is located within the first 50 amino acids of Apaf1. |
| TESTED APPLICATIONS: | ELISA, IF, IHC-P, WB |

| | |
|------------------------------------|--|
| APPLICATIONS: | Apaf1 antibody can be used for detection of Apaf1 by Western blot at 1 µg/mL. A 115 - 130 kDa band should be detected. Antibody can also be used for immunohistochemistry starting at 1 µg/mL. For immunofluorescence start at 10 µg/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. |
| POSITIVE CONTROL: | 1) Cat. No. 1204 - K562 Cell Lysate |
| | 2) Cat. No. 10-501 - Human Heart Tissue Slide |
| | 3) Cat. No. 17-004 - K-562 Cell Slide |
| PREDICTED MOLECULAR WEIGHT: | Predicted: 132 kDa Observed: 130 kDa |

Ψ Properties

| | |
|----------------------------|---|
| PURIFICATION: | Apaf1 Antibody is affinity chromatography purified via peptide column. |
| CLONALITY: | Polyclonal |
| ISOTYPE: | IgG |
| CONJUGATE: | Unconjugated |
| PHYSICAL STATE: | Liquid |
| BUFFER: | Apaf1 Antibody is supplied in PBS containing 0.02% sodium azide. |
| CONCENTRATION: | batch dependent |
| STORAGE CONDITIONS: | Apaf1 antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

Ψ Additional Info

| | |
|-------------------------|--|
| OFFICIAL SYMBOL: | APAF1 |
| ALTERNATE NAMES: | Apaf1 Antibody: CED4, APAF-1, KIAA0413, Apoptotic protease-activating factor 1 |
| ACCESSION NO.: | AAC51678 |
| PROTEIN GI NO.: | 2330015 |
| GENE ID: | 317 |
| USER NOTE: | Optimal dilutions for each application to be determined by the researcher. |

Ψ Background and References

| | |
|--------------------|--|
| BACKGROUND: | Apaf1 Antibody: Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. The mammalian homologues of the key cell death gene CED-4 in <i>C. elegans</i> has been identified recently from human and mouse and designated Apaf1 (for apoptosis protease-activating factor 1). Apaf1 binds to cytochrome c (Apaf-2) and caspase-9 (Apaf-3), which leads to caspase-9 activation. Activated caspase-9 in turn cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Apaf1 can also associate with caspase-4 and caspase-8. Apaf1 is ubiquitously expressed in human tissues. |
| REFERENCES: | 1) Zou H, Henzel WJ, Liu X, Lutschg A, Wang X. Apaf1, a human protein homologous to <i>C. elegans</i> CED-4, participates in cytochrome c-dependent activation of caspase-3. <i>Cell</i> 1997;90:405-13 |
| | 2) Cecconi F, Alvarez-Bolado G, Meyer BI, Roth KA, Gruss P. Apaf1 (CED-4 homolog) regulates programmed cell death in mammalian development. <i>Cell</i> 1998;94:727-37 |
| | 3) Li P, Nijhawan D, Budihardjo I, Srinivasula SM, Ahmad M, Alnemri ES, Wang X. Cytochrome c and dATP-dependent formation of Apaf1/caspase-9 complex initiates an apoptotic protease cascade. <i>Cell</i> 1997;91:479-89 |
| | 4) Hu Y, Benedict MA, Wu D, Inohara N, Nunez G. Bcl-XL interacts with Apaf1 and inhibits Apaf1-dependent caspase-9 activation. <i>Proc Natl Acad Sci USA</i> 1998;95:4386-91 (RD1299) |

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