

RABBIT ANTI-APAF1 (C-TERMINUS) POLYCLONAL ANTIBODY

CATALOG NUMBER: AB16503

LOT NUMBER:

QUANTITY: 100 µg

CONCENTRATION: 1 mg/mL.

SPECIFICITY: Apoptosis is related to many diseases and is 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 *C. elegans* has been identified recently from human and mouse and was designated Apaf1 (for apoptosis protease-activating factor 1).^{1,2} Apaf1 binds to cytochrome C (Apaf2) and caspase-9 (Apaf3), which leads to caspase-9 activation. Activated caspase-9 in turn cleaves and activates caspase-3 which is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis.³ Apaf1 can also associate with caspase-4 and caspase-8.⁴ Apaf1 is ubiquitously expressed in human tissues.¹

IMMUNOGEN: Rabbit anti-Apaf1 (C-terminus) polyclonal antibody was raised against a peptide corresponding to amino acids 1158 to 1177 of human Apaf1¹. The sequence of the immunogenic peptide differs from that of murine Apaf1 by one amino acid^{1,2}

APPLICATIONS: Western blot: 1:500 to 1:2000.
Human heart tissue lysate can be used as positive control and a 130 kDa band should be detected. AB16503 is human, mouse and rat reactive.
Optimal working dilutions must be determined by end user.

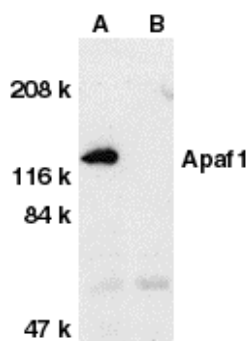
FORMAT: Purified IgG by immunoaffinity chromatography.

PRESENTATION: Liquid in PBS containing 0.02% sodium azide.

STORAGE/HANDLING: Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.

REFERENCES:

1. Zou, H. et al. (1997). *Cell* **90**: 405-13.
2. Cecconi, F. et al. (1998). *Cell* **94**: 727-37.
3. Li, P. et al. (1997). *Cell* **91**: 479-89.
4. Hu, Y. et al. (1998). *Proc. Natl. Acad. Sci. USA* **95**: 4386-91.



Western blot analysis of Apaf1 in human heart tissue lysate with anti-Apaf1 at 1:500 dilution in the absence (A) or presence (B) of blocking peptide.

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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09-10-2001/AB16503/KR