

Polyclonal Antibody to APAF-1 (NT)

Alternate names:	APAF1
Catalog No.:	SP6252P
Quantity:	50 µg
Concentration:	0.5 mg/ml
Host:	Rabbit
Immunogen:	Rabbit anti-Apaf-1 (NT) polyclonal antibody was raised against a peptide corresponding to amino acids 12 to 28 of human Apaf-1 (1). The sequences of the immunogenic peptide are identical between human and mouse (1, 2)
Applications:	Western blot 1/1000 - 1/2000. Whole cell lysate from HeLa cells can be used as positive control and a 130 kDa band should be detected. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	SP6253P recognises a 130kD band in Western blots. 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 Apaf-1 (for apoptosis protease-activating factor 1) (1, 2). Apaf-1 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 (3). Apaf-1 can also associate with caspase-4 and caspase-8 (4). Apaf-1 is ubiquitously expressed in human tissue (1). Reacts with human and mouse.
Storage:	Store the antibody at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Zou H, Henzel WJ, Liu X, Lutschg A, Wang X. Apaf-1, a human protein homologous to <i>C. elegans</i> CED-4, participates in cytochrome c-dependent activation of caspase-3. <i>Cell</i> . 1997 Aug 8;90(3):405-13. PubMed PMID: 9267021. 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 Sep 18;94(6):727-37. PubMed PMID: 9753320. 3. Li P, Nijhawan D, Budihardjo I, Srinivasula SM, Ahmad M, Alnemri ES, et al. Cytochrome c and dATP-dependent formation of Apaf-1/caspase-9 complex initiates an apoptotic protease cascade. <i>Cell</i> . 1997 Nov 14;91(4):479-89. PubMed PMID: 9390557.

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4. Hu Y, Benedict MA, Wu D, Inohara N, Núñez G. Bcl-XL interacts with Apaf-1 and inhibits Apaf-1-dependent caspase-9 activation. Proc Natl Acad Sci U S A. 1998 Apr 14;95(8):4386-91. PubMed PMID: 9539746.

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