

Datasheet for ABIN499287

anti-APAF1 antibody (N-Term)

2 Images



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Overview

Quantity:	0.1 mg
Target:	APAF1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APAF1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human Apaf1 (N-Terminus) Peptide
Isotype:	IgG
Specificity:	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.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	APAF1
Alternative Name:	APAF1 (APAF1 Products)

Target Details

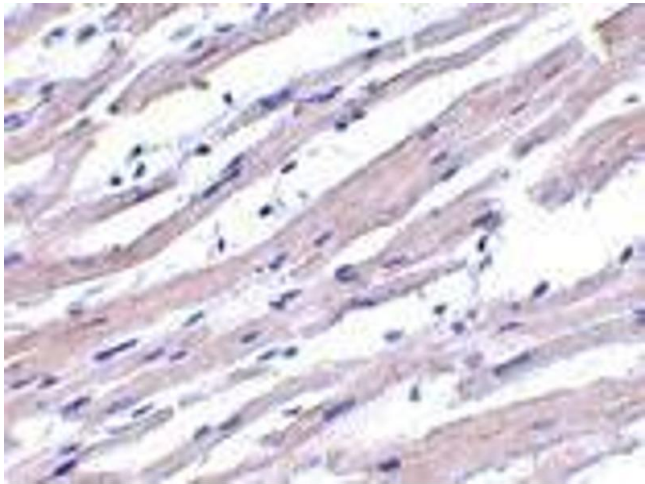
Background:	Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. The mammalian homologues of the key cell death gene CED-4 in <i>C. elegans</i> has been identified recently from human and mouse and designated Apaf1 (for apoptosis protease-activating factor 1) (1,2). 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 (3). Apaf1 can also associate with caspase-4 and caspase-8 (4). Apaf1 is ubiquitously expressed in human tissues .Synonyms: Apaf-1, Apoptotic protease-activating factor 1, KIAA0413
Gene ID:	317
UniProt:	O14727
Pathways:	p53 Signaling , Apoptosis , Caspase Cascade in Apoptosis , Tube Formation , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	ELISA. Western Blot: Apaf1 antibody can be used for detection of Apaf1 at 1 - 2 µg/mL. Whole celllysate from HeLa cells can be used as positive control and a 115 - 130 kDa band should bedetected. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

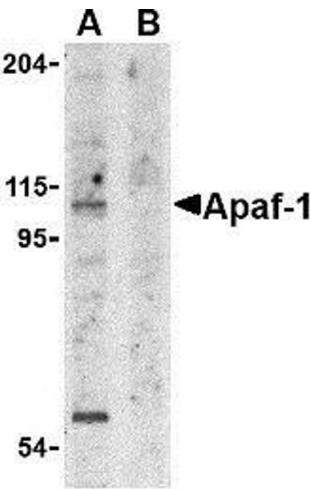
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Apaf1 in human heart tissue with Apaf1 antibody at 1 µg/ml.



Western Blotting

Image 2. Western blot analysis of Apaf1 in K562 cell lysate with AP30055PU-N Apaf1 antibody at 1 µg/ml in the (A) absence and (B) presence of blocking peptide.