



Apaf-1 Monoclonal Antibody

Catalog No	BYmab-00576
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	APAF1
Protein Name	Apoptotic protease-activating factor 1
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human APAF1. AA range:501-550
Specificity	Apaf-1 Monoclonal Antibody detects endogenous levels of Apaf-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	APAF1; KIAA0413; Apoptotic protease-activating factor 1; APAF-1
Observed Band	135kD
Cell Pathway	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.
Function	domain:The CARD domain mediates interaction with AIP1.,function: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.,induction:By E2F and p53 in apoptotic neurons.,similarity:Contains 1 CARD domain.,similarity:Contains 1 NB-ARC domain.,similarity:Contains 13 WD repeats.,subunit:Monomer. Oligomerizes upon binding of cytochrome c and dATP. Oligomeric Apaf-1 and pro-caspase-9 bind to each other via their respective NH2-terminal CARD domains and consecutively mature caspase-9 is released from the complex. Pro-caspase-3 is recruited into the

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Apaf-1-pro-caspase-9 complex via interaction with pro-caspase-9. Interacts with APIP.,tissue specificity:Ubiquitous. Highest levels of expression in adult spleen and per

Background

This gene encodes a cytoplasmic protein that initiates apoptosis. This protein contains several copies of the WD-40 domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome binds and cleaves caspase 9 preproprotein, releasing its mature, activated form. Activated caspase 9 stimulates the subsequent caspase cascade that commits the cell to apoptosis. Alternative splicing results in several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008],

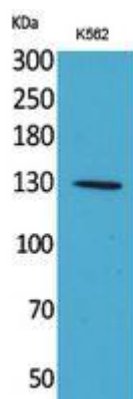
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Apaf-1 Monoclonal Antibody