

Apaf-1-ALT Polyclonal Antibody

Catalog No :	YT0255
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	APAF1
Fields :	>>Platinum drug resistance;>>p53 signaling pathway;>>Apoptosis;>>Apoptosis - multiple species;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Legionellosis;>>Tuberculosis;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Influenza A;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Small cell lung cancer;>>Lipid and atherosclerosis
Gene Name :	APAF1
Protein Name :	Apoptotic protease-activating factor 1
Human Gene Id :	317
Human Swiss Prot No :	O14727-6
Immunogen :	The antiserum was produced against synthesized peptide derived from human APAF-1-ALT. AA range:289-338
Specificity :	Apaf-1-ALT Polyclonal Antibody detects endogenous levels of Apaf-1-ALT protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Observed Band : 27kD

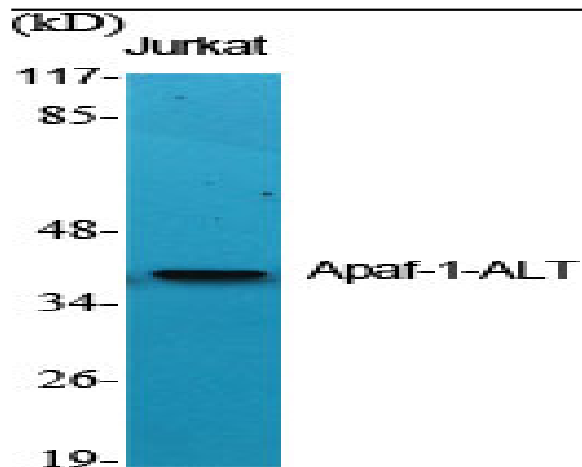
Background : This gene encodes a cytoplasmic protein that initiates apoptosis. This protein contains several copies of the WD-40 domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome 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],

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 Apaf-1-pro-caspase-9 complex via interaction with pro-caspase-9. Interacts with AIP1., tissue specificity: Ubiquitous. Highest levels of expression in adult spleen and per

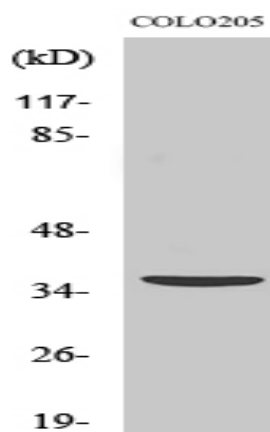
Subcellular Location : Cytoplasm .

Expression : 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.

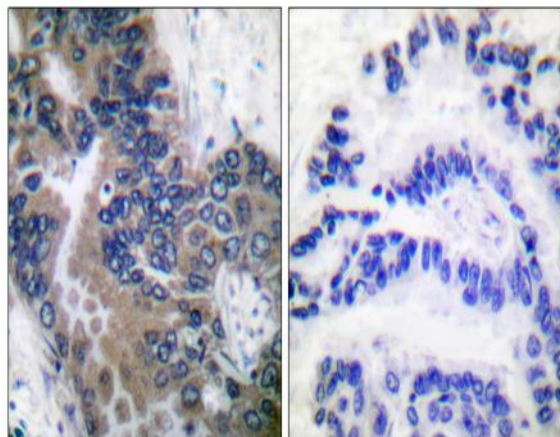
Products Images



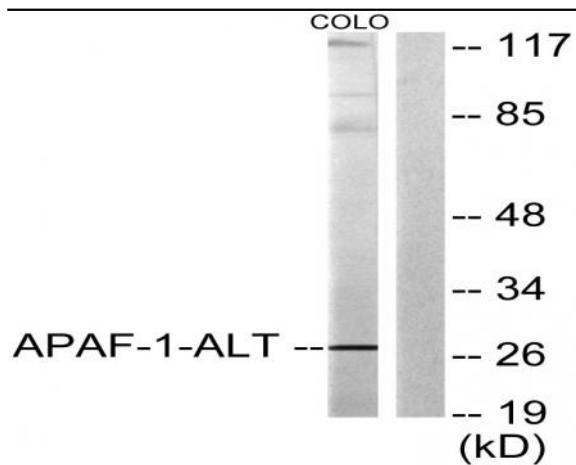
Western Blot analysis of various cells using Apaf-1-ALT Polyclonal Antibody diluted at 1:500



Western Blot analysis of COLO205 cells using Apaf-1-ALT Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using APAF-1-ALT Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using APAF-1-ALT Antibody. The lane on the right is blocked with the synthesized peptide.