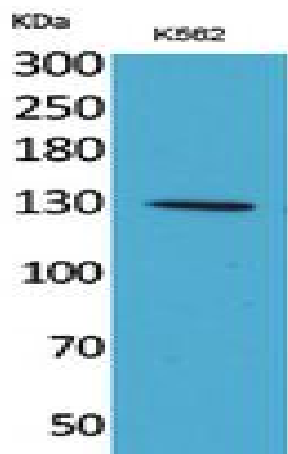


Apaf-1 Polyclonal Antibody

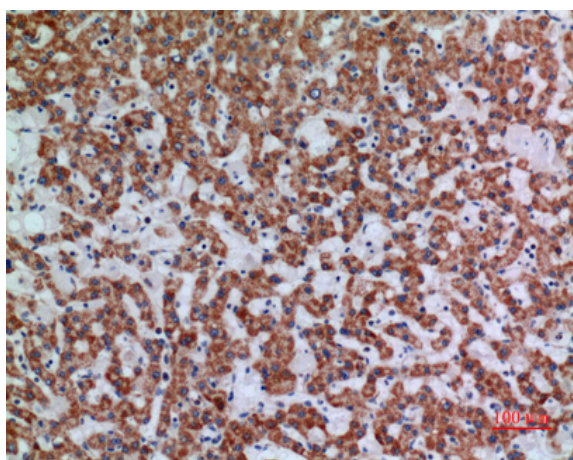
Catalog No :	YT5378
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	APAF1
Fields :	>>Platinum drug resistance;>>p53 signaling pathway;>>Apoptosis;>>Apoptosis - multiple species;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways 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
Mouse Gene Id :	11783
Mouse Swiss Prot No :	O88879
Rat Gene Id :	78963
Rat Swiss Prot No :	Q9EPV5
Immunogen :	The antiserum was produced against synthesized peptide derived from the Internal region of human APAF1. AA range:501-550
Specificity :	Apaf-1 Polyclonal Antibody detects endogenous levels of Apaf-1 protein. Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Formulation :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200
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 :	135kD
Cell Pathway :	p53;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;Alzheimer's disease;Parkinson's disease;Amyotrophic lateral sclerosis (ALS);Huntington's disease;Small cell lung cancer;
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 APIP.,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 APIP.,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.

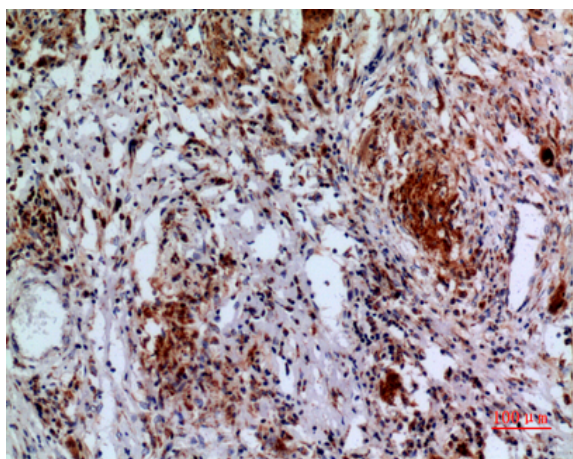
Products Images



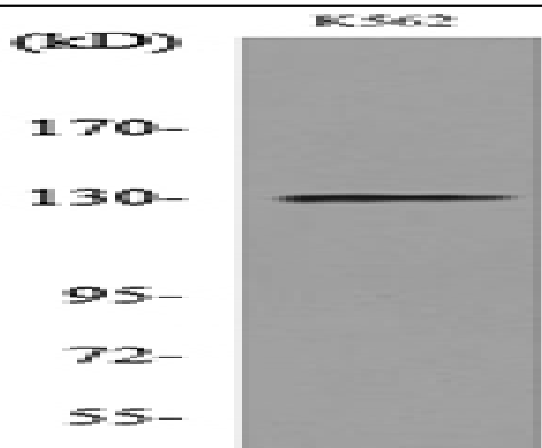
Western Blot analysis of K562 cells using Apaf-1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Western blot analysis of lysate from K562 cells, using APAF1 Antibody.