

Apaf1 Antibody

Catalog No: #24040

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

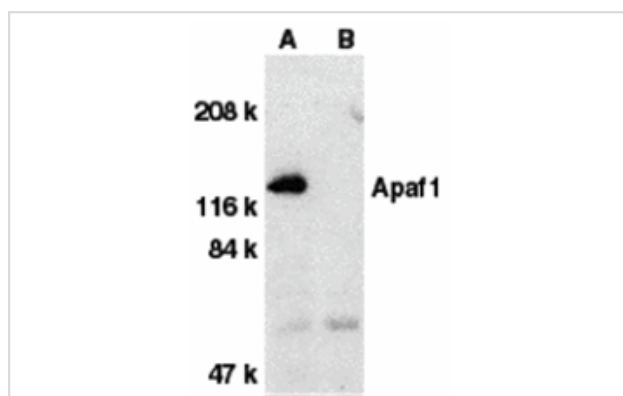
Description

Product Name	Apaf1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to amino acids near the carboxy terminus of human Apaf1. The sequence of the immunogenic peptide differs from that of murine Apaf1 by one amino acid.
Target Name	Apaf1
Other Names	Apaf1, Apaf-1
Accession No.	Swiss-Prot:O14727Gene ID:317
Uniprot	O14727
GeneID	317;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

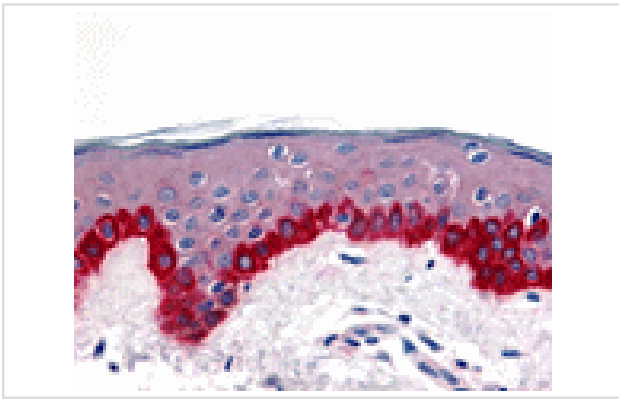
Application Details

Predicted MW: 130 kd

Images



Western blot analysis of Apaf1 in human heart tissue lysate with Apaf1 antibody at 1 ug/mL dilution in the absence (A) or presence (B) of blocking peptide.



Immunohistochemistry of Apaf1 in human skin tissue with Apaf1 antibody at 20 ug/mL.

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 homologous of the key cell death gene CED-4 in *C. elegans* was identified recently from human and mouse and designated Apaf1 for apoptosis protease-activating factor 1. Apaf1 binds to cytochrome c (Apaf2) and caspase-9 (Apaf3), 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. Apaf1 can also associate with caspase-4 and caspase-8. Apaf1 transcript is ubiquitously expressed in human tissues.

Note: This product is for in vitro research use only