Apaf-1 Monoclonal Antibody

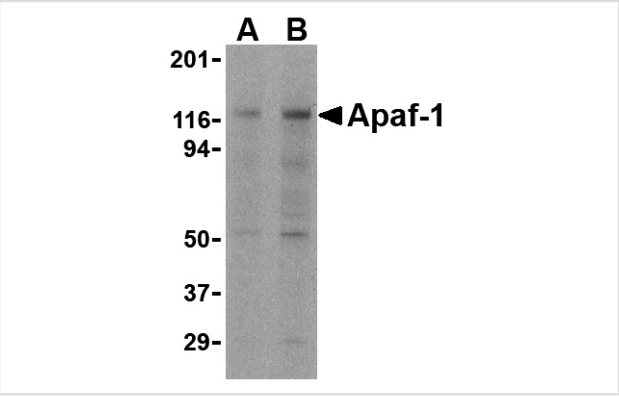
Catalog No: #26001

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

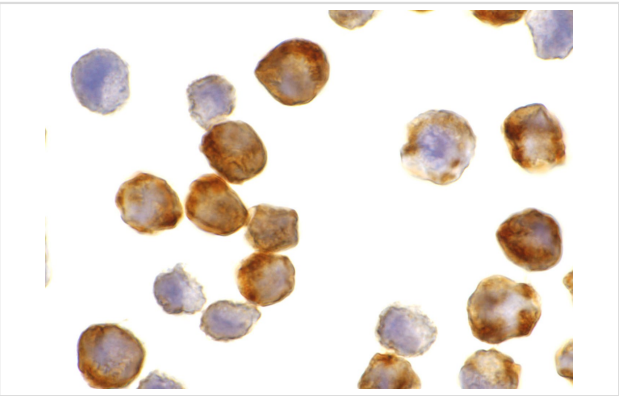
Description

Product Name	Apaf-1 Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	mAb (Clone 2E10)
Purification	Immunoaffinity chromotography purified IgG
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	A peptide corresponding to amino acids near the carboxy terminus of human Apaf1.
Target Name	Apaf-1
Other Names	Apaf-1 (2E10), Apoptotic protease activating factor 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.

Images



Western blot analysis of Apaf1 in K562 cell lysate with Apaf1 antibody at (A) 0.25 and (B) 0.5 mg/ml.



Immunohistochemistry of Apaf1 in K562 cells with Apaf1 antibody at 0.5 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 (1,2). 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