active+pro Caspase 3 Rabbit mAb

Catalog No: #48844

Package Size: #48844-1 50ul #48844-2 100ul



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

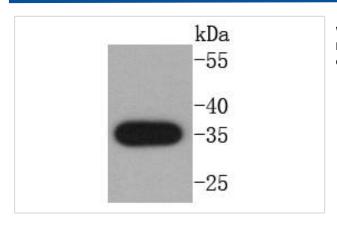
D	10.4
Descri	puon

The state of the s	
Product Name	active+pro Caspase 3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SU38-04
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	Apopain antibody CASP 3 antibody CASP-3 antibody CASP3 antibody CASP3_HUMAN antibody Caspase 3
	antibody Caspase-3 subunit p12 antibody CPP 32 antibody CPP-32 antibody CPP32B antibody Cysteine
	protease CPP32 antibody PARP cleavage protease antibody Protein Yama antibody SCA-1 antibody SCA1
	antibody SREBP cleavage activity 1 antibody Yama antibody
Accession No.	Swiss-Prot#:P42574
Uniprot	P42574
GeneID	836;
Calculated MW	35 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

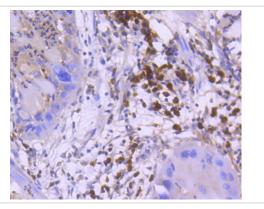
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200

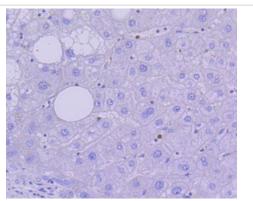
Images



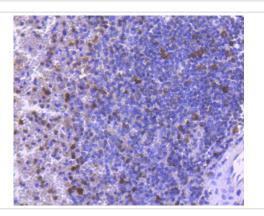
Western blot analysis of active+pro Caspase 3 on Jurkat cells lysates using anti-active+pro Caspase 3 antibody at 1/1,000 dilution.



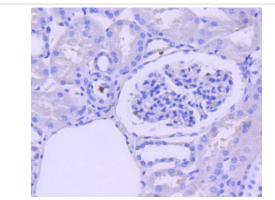
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-active+pro Caspase 3 antibody. Counter stained with hematoxylin.

Background

Caspase-3, also known as apopain, SCA-1, Yama and CPP32, is an aspartate-specific cysteine protease that belongs to the ICE subfamily of caspases. Caspase-3 is expressed in cells as an inactive precursor from which the p17 and p11 subunits of the mature caspase-3 are proteolytically generated during apoptosis. The caspase-3 precursor is first cleaved at Asp175-Ser176 to produce the p11 subunit and the p20 peptide.

Subsequently, the p20 peptide is cleaved at Asp28-Ser29 to generate the mature p17 subunit. The active caspase-3 enzyme is a heterodimer composed of two p17 and two p11 subunits. At the onset of apoptosis, caspase-3 proteolytically cleaves PARP at an Asp216-Gly217 bond. During the execution of the apoptotic cascade, activated caspase-3 releases SREBP from the membrane of the ER in a proteolytic reaction that is distinct from their normal sterol-dependent activation. Caspase-3 cleaves and activates SREBPs between the basic helix-loop-helix leucine zipper domain and the

membrane attachment domain. Caspase-3 also cleaves and activates caspase-6, -7 and -9. The human caspase-3 gene encodes a cytoplasmic protein that is highly expressed in lung, spleen, heart, liver, kidney and cells of the immune system.

		ces

Note: This product is for in vitro research use only