Caspase-9 Rabbit mAb

Catalog No: #48687

Package Size: #48687-1 50ul #48687-2 100ul

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

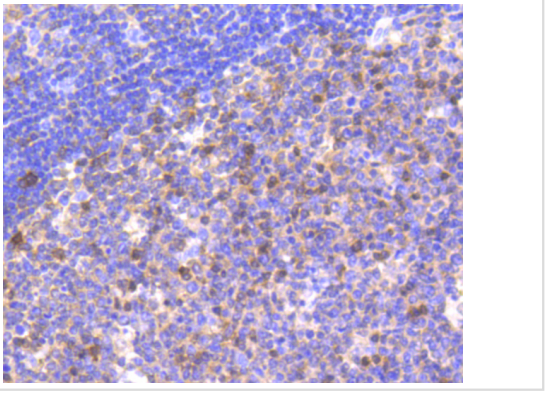
Description

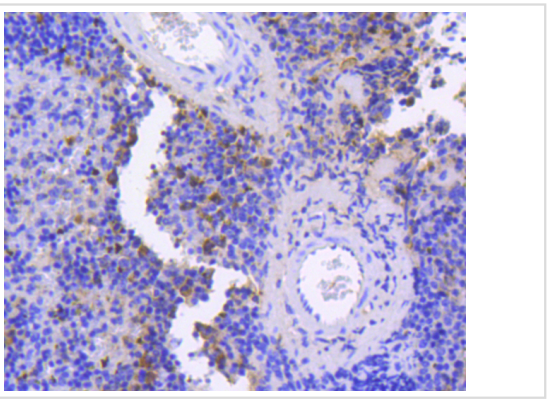
Product Name	Caspase-9 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ29-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Human;Mouse
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	APAF-3 antibody APAF3 antibody Apoptosis related cysteine peptidase antibody Apoptotic protease Mch-6 antibody Apoptotic protease-activating factor 3 antibody CASP-9 antibody CASP9 antibody CASP9_HUMAN antibody Caspase 9 apoptosis related cysteine peptidase antibody Caspase 9 Dominant Negative antibody Caspase 9c antibody Caspase-9 antibody Caspase-9 subunit p10 antibody ICE LAP6 antibody ICE like apoptotic protease 6 antibody ICE-LAP6 antibody ICE-like apoptotic protease 6 antibody MCH6 antibody PPP1R56 antibody protein phosphatase 1, regulatory subunit 56 antibody RNCASP9 antibody
Accession No.	Swiss-Prot#:P55211
Calculated MW	46 kDa
SDS-PAGE MW	46,39,37,35 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

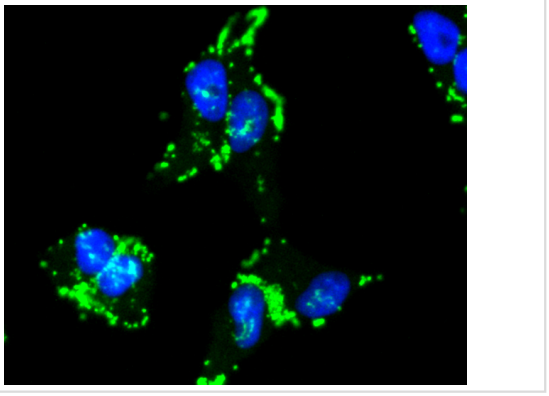
Application Details

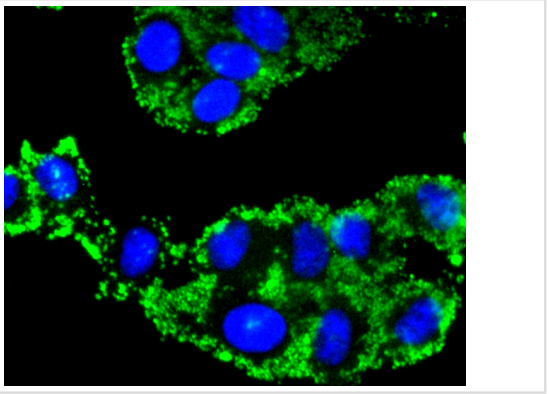
WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:100-1:500

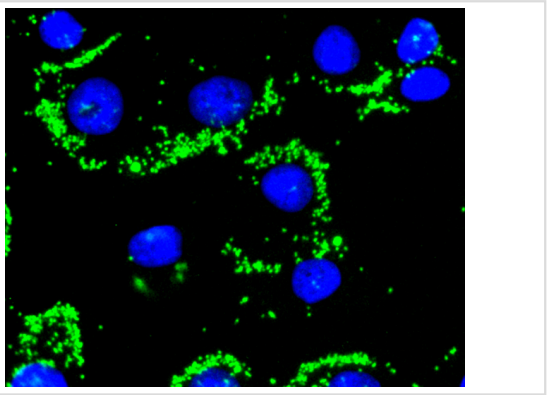
Images

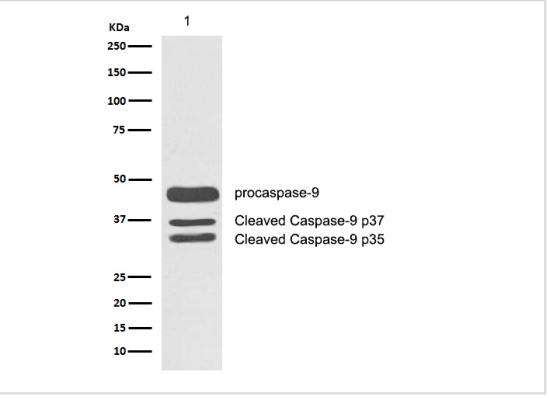




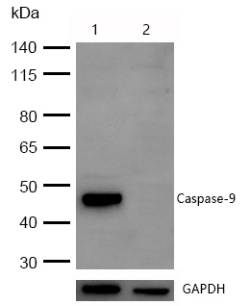




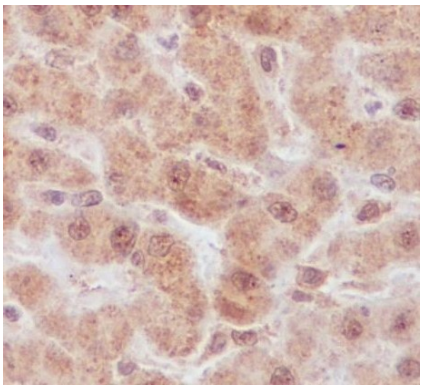




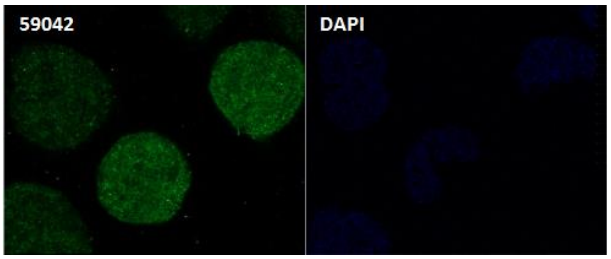
All lanes: Caspase-9 Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 46 kDa Observed band size: 46,39,37,35 kDaExposure time: 5 seconds



All lanes:Caspase-9 Rabbit mAb at 1/1k dilutionLane 1 : Wild-type Hela cell lysateLane 2 : Caspase-9 knockdown Hela cell lysateLysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded human liver tissue stained for Caspase-9 using 48687 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Caspase-9 antibody (48687) ICC/IF staining of Caspase-9 in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 48687 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

Background

A unique family of cysteine proteases has been described that differs in sequence, structure and substrate specificity from any previously described protease family. This family, Ced-3/caspase-1, is comprised of caspase-1, caspase-2, caspase-3, caspase-4, caspase-6, caspase-7 (also designated Mch3, ICE-LAP3 or CMH-1), caspase-9 and caspase-10. Ced-3/caspase-1 family members function as key components of the apoptotic machinery and act to destroy specific target proteins which are critical to cellular longevity. Poly(ADP-ribose) polymerase plays an integral role in surveying for DNA mutations and double strand breaks. Caspase-3, caspase-7 and caspase-9, but not caspase-1, have been shown to cleave the nuclear protein PARP into an apoptotic fragment. Caspase-6, but not caspase-3, has been shown to cleave the nuclear lamins, which are critical to maintaining the integrity of the nuclear envelope and cellular morphology. Caspase-10 has been shown to activate caspase-3 and caspase-7 in response to apoptotic stimuli.

References

1. Arango-Gonzalez B et al. Identification of a common non-apoptotic cell death mechanism in hereditary retinal degeneration. PLoS One 9:e112142 (2014). 2. Schattenberg JM et al. Increased hepatic fibrosis and JNK2-dependent liver injury in mice exhibiting hepatocyte-specific deletion of cFLIP. Am J Physiol Gastrointest Liver Physiol 303:G498-506 (2012).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.