Product Datasheet

pro Caspase 7 Rabbit mAb

Catalog No: #49137

Package Size: #49137-1 50ul #49137-2 100ul

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

Description

Product Name	pro Caspase 7 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SD20-57
Purification	ProA affinity purified
Applications	WB IHC ICC/IF
Species Reactivity	Hu
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	apoptosis-related cysteine peptidase antibody Apoptotic protease Mch-3 antibody CASP-7 antibody CASP7 antibody CASP7_HUMAN antibody Caspase-7 subunit p11 antibody CMH-1 antibody ICE-LAP3 antibody ICE-like apoptotic protease 3 antibody
Accession No.	Swiss-Prot#:P55210
Calculated MW	Predicted band size: 34 kDa
SDS-PAGE MW	Observed band size: 34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

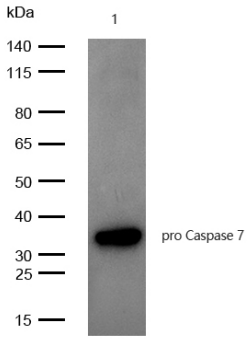
Application Details

WB: 1:500-1:2000

IHC: 1:50-1:200

ICC/IF: 1:50-1:200

Images



All lanes: pro Caspase 7 Rabbit mAb at 1/1k dilution

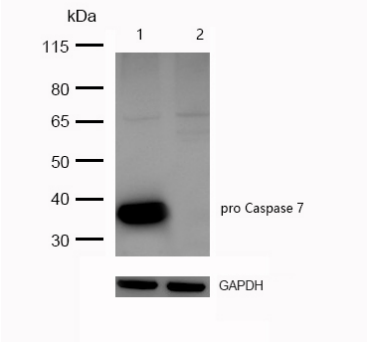
Lane 1 : Human lung lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 34 kDa
Observed band size: 34 kDa

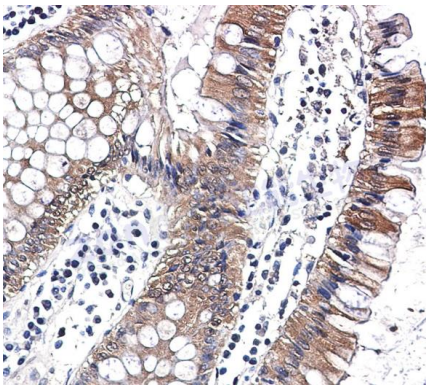
Exposure time: 4 seconds



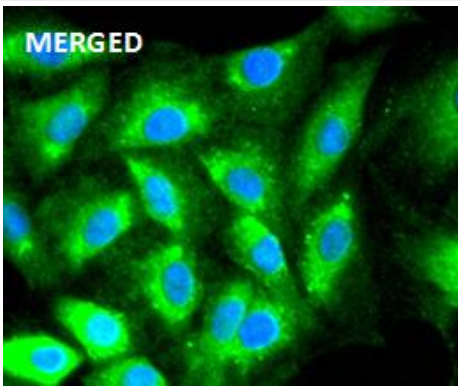
All lanes:pro Caspase 7 Rabbit mAb at 1/1k dilution

Lane 1 : Wild-type Jurkat cell lysate
Lane 2 : pro Caspase 7 knockdown Jurkat cell lysate

Lysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded human colon cancer tissue stained for pro Caspase 7 using 49137 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence pro Caspase 7 antibody (49137) ICC/IF staining of pro Caspase 7 in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 49137 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.

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