

## Caspase-3 Rabbit mAb

Catalog No: #48658



Package Size: #48658-1 50ul #48658-2 100ul

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## Description

Product Name	Caspase-3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR03-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Rt
Immunogen Description	recombinant protein
Other Names	A830040C14Rik antibody Apopain antibody CASP-3 antibody CASP3 antibody CASP3_HUMAN antibody Casp3a antibody Caspase 3 antibody Caspase 3, apoptosis-related cysteine peptidase antibody Caspase 3, apoptosis-related cysteine protease antibody Caspase 3, apoptosis-related cysteine protease a antibody Caspase-3 subunit p12 antibody CC3 antibody CPP-32 antibody CPP32 antibody CPP32B antibody Cysteine protease CPP32 antibody EC 3.4.22.56 antibody LICE antibody mldy antibody OTTHUMP00000165052 antibody OTTHUMP00000165053 antibody OTTHUMP00000165054 antibody PARP cleavage protease antibody Procaspase3 antibody Protein Yama antibody SCA 1 antibody SCA-1 antibody SREBP cleavage activity 1 antibody Yama antibody
Accession No.	Swiss-Prot#:P42574
Uniprot	P42574
GeneID	836;
Calculated MW	32 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

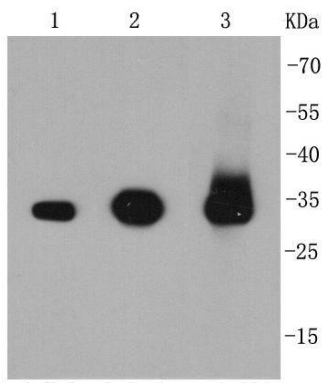
WB: 1:1,000-5,000

IHC: 1:50-1:200

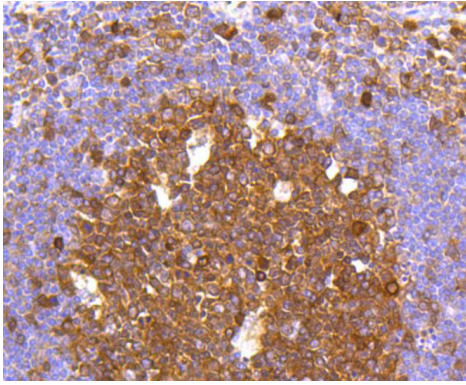
ICC: 1:50-1:100

FC:1:20-1:50

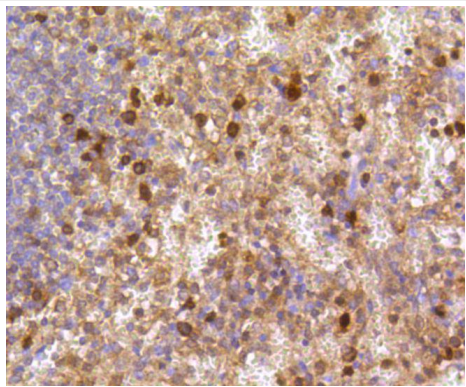
## Images



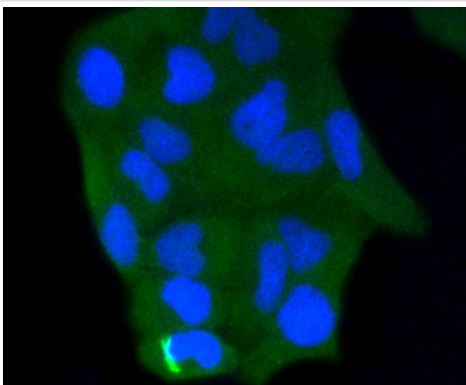
Western blot analysis of Caspase-3 on different cell lysates using anti-Caspase-3 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: Jurkat Lane 3: 293



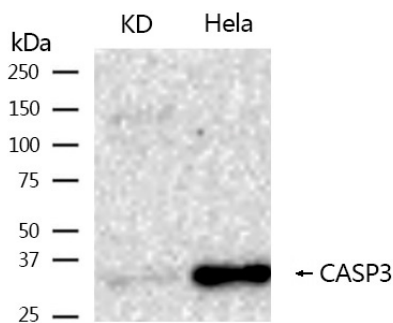
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Caspase-3 antibody. Counter stained with hematoxylin.



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



ICC staining Caspase-3 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Western blotting analysis using Caspase-3 Antibody #48658.

## Background

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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.

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Note: This product is for in vitro research use only