

CASP3 Antibody

Catalog No: #32628



Package Size: #32628-1 50ul #32628-2 100ul

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

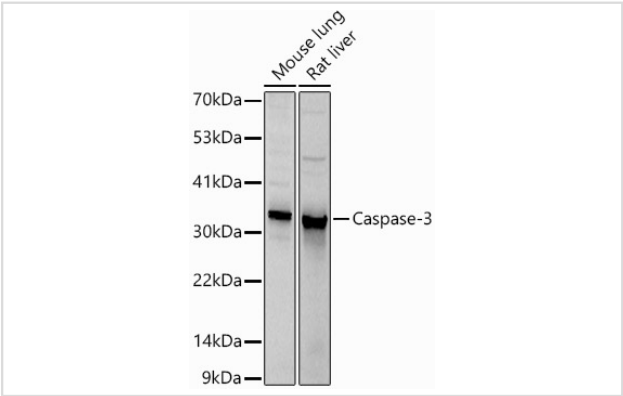
Description

Product Name	CASP3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB;IHC;IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total CASP3 protein.
Immunogen Type	Peptide
Immunogen Description	Recombinant fusion protein of human Caspase-3 (NP_004337.2).
Conjugates	Unconjugated
Target Name	CASP3
Other Names	CPP32;CPP32B;SCA-1;Active Caspase 3;CASP3;active Caspase-3;Caspase 3;Caspase-3 p12;caspase-3
Accession No.	Uniprot:P42574GeneID:836
SDS-PAGE MW	32KDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

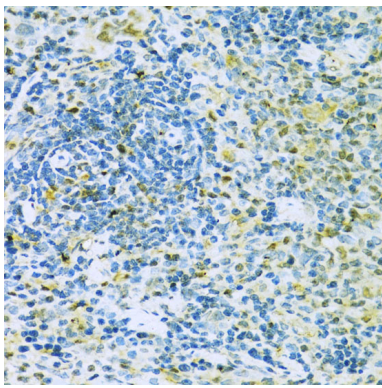
Application Details

WB 1:500 - 1:2000IHC 1:50 - 1:200IF 1:50 - 1:200

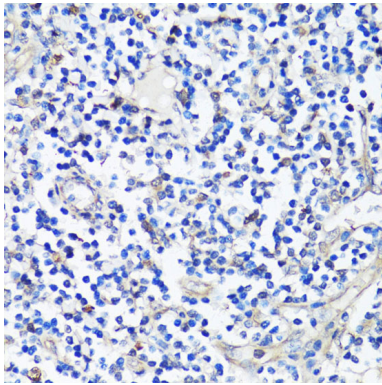
Images



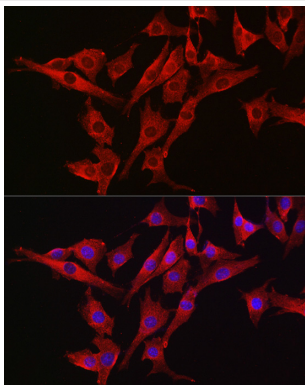
Western blot analysis of extracts of various cell lines, using Caspase-3 antibody.



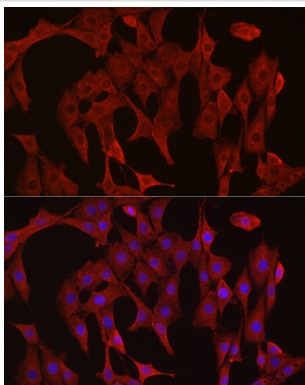
Immunohistochemistry of paraffin-embedded rat spleen using Caspase-3 antibody.



Immunohistochemistry of paraffin-embedded human tonsil using Caspase-3 antibody.



Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] Caspase-3 Rabbit pAb.



Immunofluorescence analysis of PC-12 cells using [KO Validated] Caspase-3 Rabbit pAb.

Background

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.

Published Papers

et al., Human urinary kininogenase reduces the endothelial injury by inhibiting Pyk2/MCU pathway. In Biomed Pharmacother on 2021 Nov by Xiaoli Yang, Zhongzhong Li,

et al..PMID:34543986, , (2021)

[PMID:34543986](#)

et al., CD155 Cooperates with PD-1/PD-L1 to Promote Proliferation of Esophageal Squamous Cancer Cells via PI3K/Akt and MAPK Signaling Pathways. In Cancers (Basel) on 2022 Nov 15 by Xiyang Tan, Jie Yang, et al..PMID:36428703, , (2022)

[PMID:36428703](#)

et al., Adenoviral delivery of truncated MMP-8 fused with the hepatocyte growth factor mutant 1K1 ameliorates liver cirrhosis and promotes hepatocyte proliferation.In Drug Des Devel Ther on 2015 Oct 16 by Jinghua Liu , Jianbo Li et al ..PMID: 26527860, , (2015)

[PMID:26527860](#)

et al., Inhibition of the JAK-STAT3 signaling pathway by ganoderic acid A enhances chemosensitivity of HepG2 cells to cisplatin. In Planta Med on 2012 Nov by Xiangyang Yao, Guilan Li, et al..PMID: 22961117, , (2012)

[PMID:22961117](#)

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