

Caspase-3 Rabbit pAb

Catalog No.: A0214 **18 Publications**

Basic Information

Catalog No.

A0214

Observed MW

17kDa/32kDa

Calculated MW

31kDa

Category

Primary antibody

Applications

WB, IHC, IF

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

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

Contact

 | www.abclonal.com

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.

Immunogen Information

Gene ID	Swiss Prot
836	P42574

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 100-200 of human Caspase-3 (NP_004337.2).

Synonyms

CPP32;CPP32B;SCA-1;Active Caspase 3;CASP3;active Caspase-3;Caspase 3;Caspase-3 p12;caspase-3

Product Information

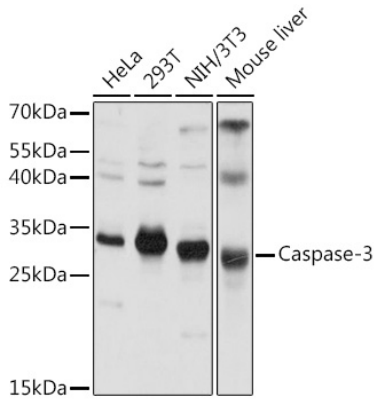
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using Caspase-3 antibody (A0214) at 1:1000 dilution.

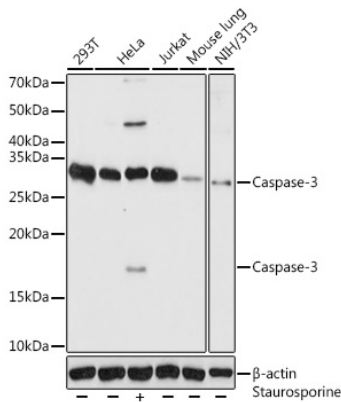
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s



Western blot analysis of extracts of various cell lines, using Caspase-3 antibody (A0214) at 1:1000 dilution. Jurkat cells were treated by staurosporine (1 μ M) for 3 hour.

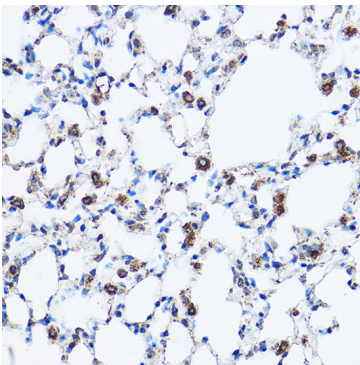
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Lysates/proteins: 25ug per lane.

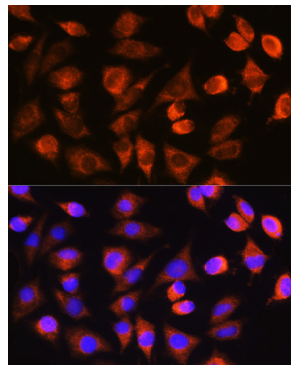
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Immunohistochemistry of paraffin-embedded mouse lung using Caspase-3 Rabbit pAb (A0214) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of L929 cells using Caspase-3 Rabbit pAb (A0214) at dilution of 1:100. Blue: DAPI for nuclear staining.