

Caspase-3 Rabbit pAb

Catalog No.: A16793

Basic Information

Observed MW

17KDa/35KDa

Calculated MW

31kDa

Category

Primary antibody

Applications

WB, IHC, IF/ICC, IP

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	1:50 - 1:200

Immunogen Information

Gene ID	Swiss Prot
836	P42574

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 29-175 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

Contact

 | www.abclonal.com

Product Information

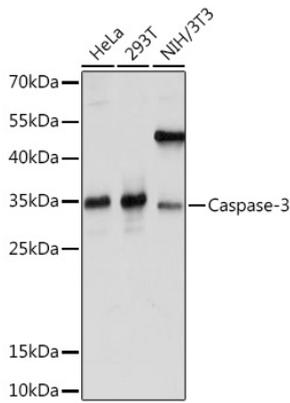
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

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

Buffer: PBS with 0.01% thiomersal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using Caspase-3 antibody (A16793) at 1:1000 dilution.

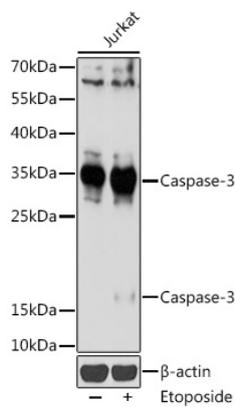
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 5s.



Western blot analysis of extracts of Jurkat cells, using Caspase-3 antibody (A16793) at 1:1000 dilution. Jurkat cells were treated by Etoposide (25 uM) at 37°C for 5 hours.

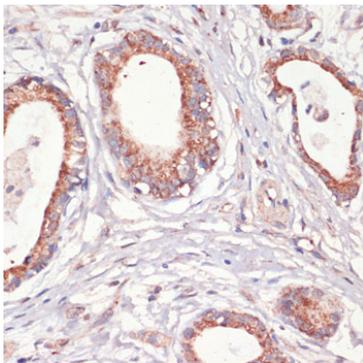
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

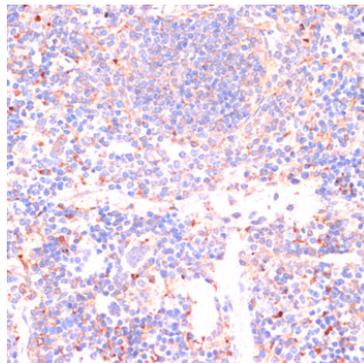
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

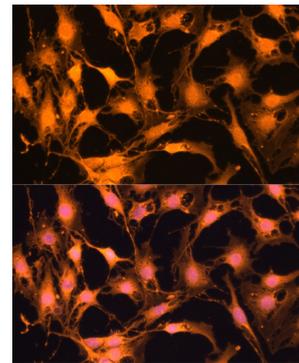
Exposure time: 90s.



Immunohistochemistry of paraffin-embedded human gastric cancer using Caspase-3 antibody (A16793) at dilution of 1:200 (40x lens).

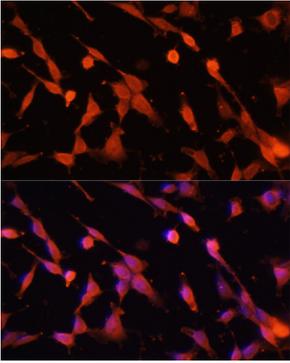


Immunohistochemistry of paraffin-embedded mouse spleen using Caspase-3 antibody (A16793) at dilution of 1:200 (40x lens).

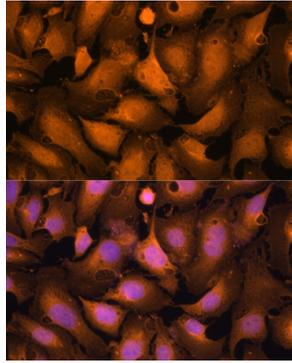


Immunofluorescence analysis of C6 cells using Caspase-3 antibody (A16793) at dilution of 1:100. Blue: DAPI for nuclear staining.

Validation Data



Immunofluorescence analysis of NIH/3T3 cells using Caspase-3 antibody (A16793) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2OS cells using Caspase-3 antibody (A16793) at dilution of 1:100. Blue: DAPI for nuclear staining.