

[KO Validated] active + pro Caspase-3 Rabbit mAb

Catalog No.: A19654 **KO Validated** **Recombinant** **9 Publications**

Basic Information

Catalog No.

A19654

Observed MW

17kDa/32kDa/35kDa

Calculated MW

17kDa/32kDa

Category

Primary antibody

Applications

WB, IF

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:2000
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. [provided by RefSeq, Jul 2008]

Immunogen Information

Gene ID	Swiss Prot
836	P42574

Immunogen

A synthesized peptide derived from human active + pro Caspase-3.

Synonyms

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

Product Information

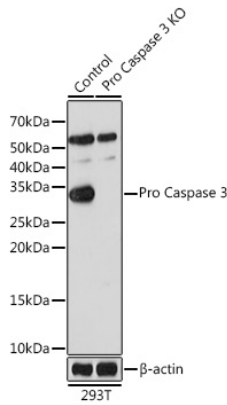
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

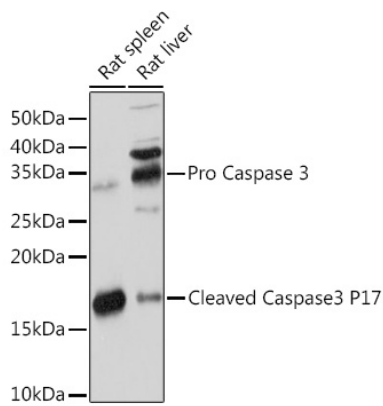
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

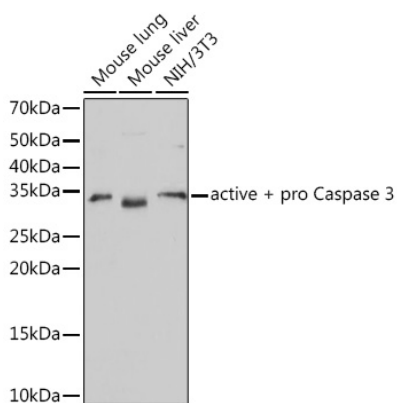
Validation Data



Western blot analysis of extracts from normal (control) and active + pro Caspase-3 knockout (KO) 293T cells, using active + pro Caspase-3 antibody (A19654) 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: 90s.

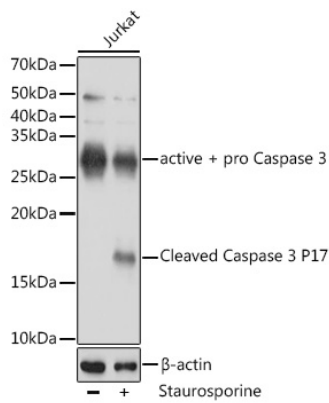


Western blot analysis of extracts of various cell lines, using active + pro Caspase-3 antibody (A19654) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

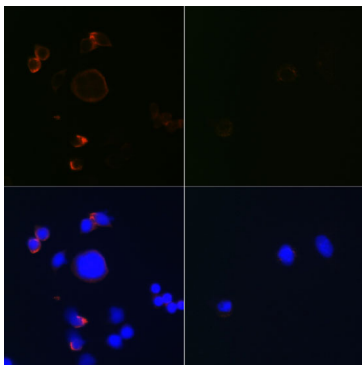


Western blot analysis of extracts of various cell lines, using active + pro Caspase-3 antibody (A19654) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.

Validation Data



Western blot analysis of extracts of Jurkat cells, using active + pro Caspase 3 antibody (A19654) at 1:1000 dilution. Jurkat cells were treated by Staurosporine (1 μM) at room temperature for 3 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunofluorescence analysis of HeLa cells using active + pro Caspase-3 antibody (A19654). HeLa cells were treated by Etoposide (25 μM) at 37°C for 5 hours. Blue: DAPI for nuclear staining.