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[KO Validated] Caspase-3 Rabbit mAb

Catalog No.: A19654 KO Validated Recombinant 109 Publications

Basic Information

Observed MW
17kDa/32kDa

Calculated MW
32kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC0133

Background

The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding proteins as well as caspases 6, 7, and 9. This 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.

Recommended Dilutions

WB	1:1000 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
836

Swiss Prot
P42574

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CPP32; SCA-1; CPP32B; -3

Contact

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Product Information

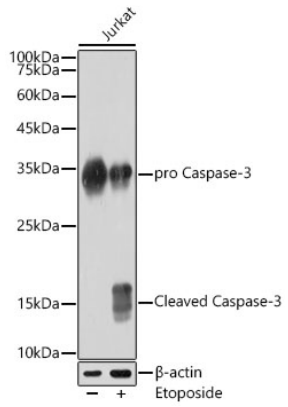
Source
Rabbit

Isotype
IgG

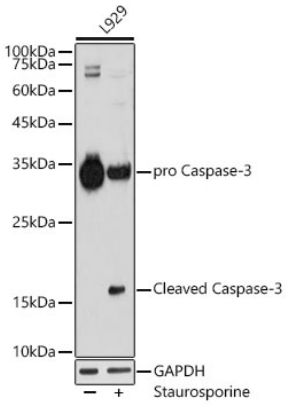
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

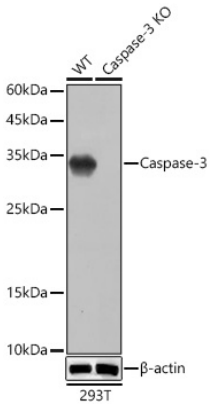
Validation Data



Western blot analysis of lysates from Jurkat cells, using [KO Validated] Caspase-3 Rabbit mAb (A19654) at 1:1000 dilution. Jurkat cells were treated with Etoposide (25 uM) at 37℃ for 5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.

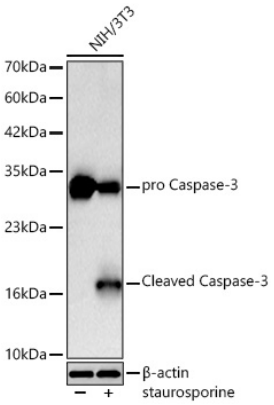


Western blot analysis of lysates from L929 cells using [KO Validated] Caspase-3 Rabbit mAb (A19654) at 1:1000 dilution. L929 cells were treated with staurosporine(1 μM) for 3 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.



Western blot analysis of lysates from wild type (WT) and Caspase-3 knockout (KO) 293T cells using [KO Validated] Caspase-3 Rabbit mAb (A19654) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated 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: 10s.

Validation Data



Western blot analysis of lysates from NIH/3T3 cells using Caspase-3 Rabbit mAb (A19654) at 1:1000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with staurosporine(1 μM) for 3 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.

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