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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

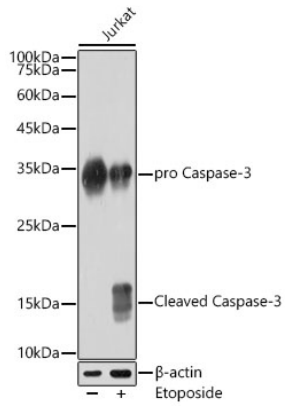
**Source**
Rabbit

**Isotype**
IgG

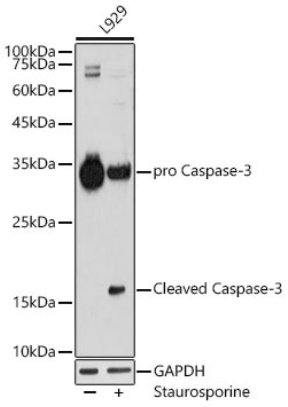
**Purification**
Affinity purification

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

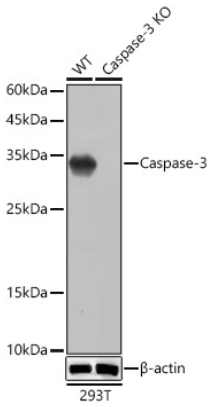
## Validation Data




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.

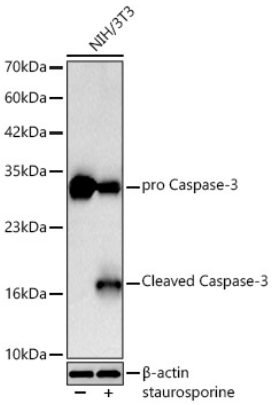



Western blot analysis of lysates from L929 cells using [KO Validated] Caspase-3 Rabbit mAb (A19654) at 1:1000 dilution. L929 cells were treated with staurosporine(1 μM) for 3 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
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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