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# Caspase-3 Rabbit pAb

**Catalog No.: A2156** **276 Publications**

## Basic Information

**Observed MW**
32kDa,17kDa

**Calculated MW**
32kDa

**Category**
Primary antibody

**Applications**
WB,IHC-P,IF/ICC,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

## 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 - 1:5000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **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


400-999-6126

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## Product Information

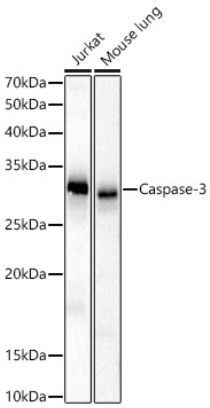
**Source**
Rabbit

**Isotype**
IgG

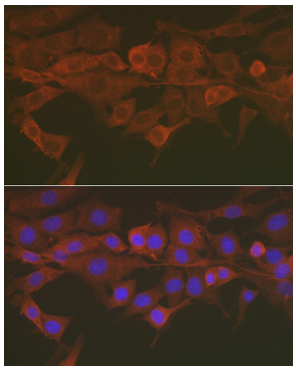
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

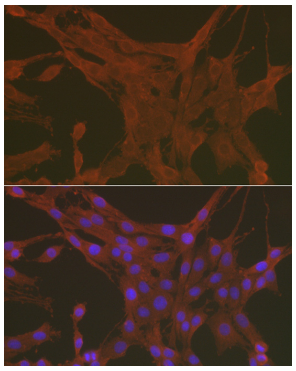
## Validation Data



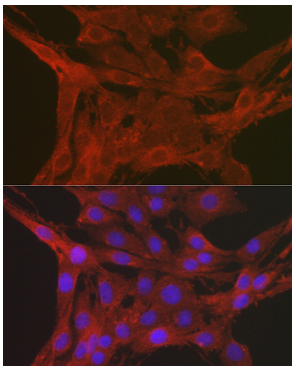

Western blot analysis of various lysates using [KO Validated] Caspase-3 Rabbit pAb (A2156) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates / proteins: 25 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



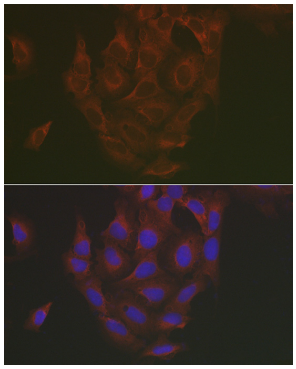
Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] Caspase-3 Rabbit pAb (A2156) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



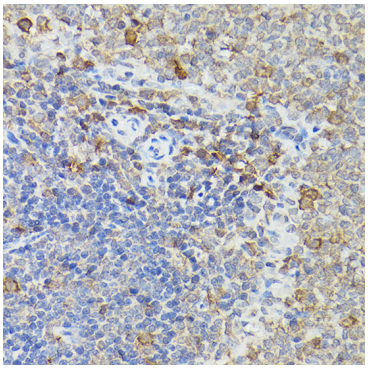
Immunofluorescence analysis of PC-12 cells using [KO Validated] Caspase-3 Rabbit pAb (A2156) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



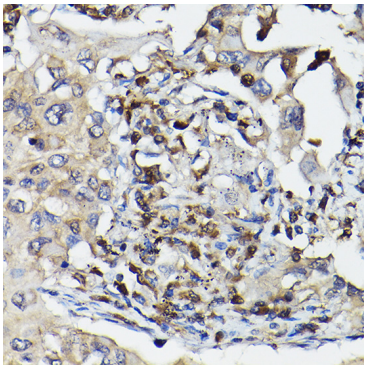
Immunofluorescence analysis of PC-12 cells using [KO Validated] Caspase-3 Rabbit pAb (A2156) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using [KO Validated] Caspase-3 Rabbit pAb (A2156) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

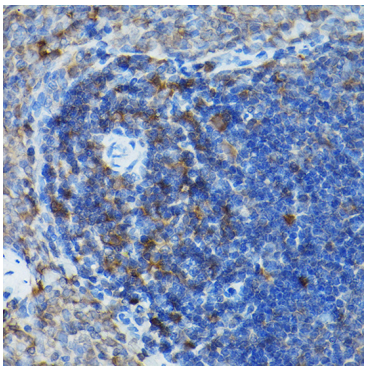


Immunohistochemistry analysis of paraffin-embedded Rat spleen using [KO Validated] Caspase-3 Rabbit pAb (A2156) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using [KO Validated] Caspase-3 p17 Rabbit pAb (A2156) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat spleen using [KO Validated] Caspase-3 p17 Rabbit pAb (A2156) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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