

# [KO Validated] Caspase-3 Rabbit pAb

Catalog No.: A2156 **KO** **Validated** **58 Publications**

## Basic Information

**Catalog No.**

A2156

**Observed MW**

17kDa, 35kDa

**Calculated MW**

31kDa

**Category**

Primary antibody

**Applications**

WB, IHC, IF

**Cross-Reactivity**

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:200
<b>IF</b>	1:50 - 1:200

## Contact

 | [www.abclonal.com](http://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.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
836	P42574

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 55-160 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

## Product Information

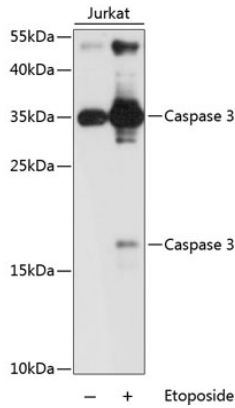
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

**Storage**

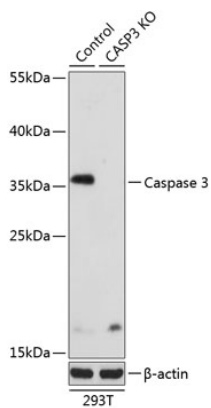
Store at -20°C. Avoid freeze / thaw cycles.

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

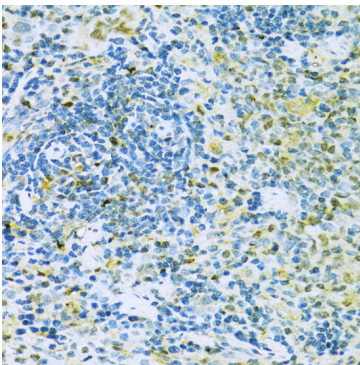
## Validation Data



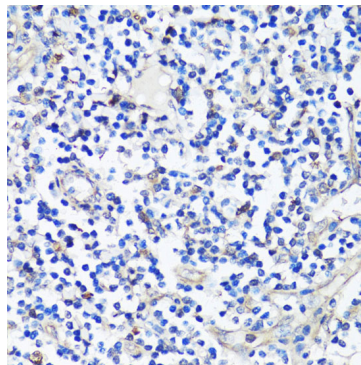
Western blot analysis of extracts of Jurkat cells, using Caspase-3 antibody (A2156) at 1:1000 dilution. Jurkat cells treated by Etoside 25uM etoside for 5 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.



Western blot analysis of extracts from normal (control) and Caspase-3 knockout (KO) 293T cells, using Caspase-3 antibody (A2156) 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.



Immunohistochemistry of paraffin-embedded rat spleen using Caspase-3 antibody (A2156) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human tonsil using Caspase-3 antibody (A2156) at dilution of 1:100 (40x lens).