

CASP3 Polyclonal Antibody

Catalog No	A2156	Category	Polyclonal Antibodies
Applications	WB, IHC, IF	Observed MW	17kDa/35kDa
Cross-Reactivity	Human, Mouse, Rat	Calculated MW	31kDa

Immunogen Information

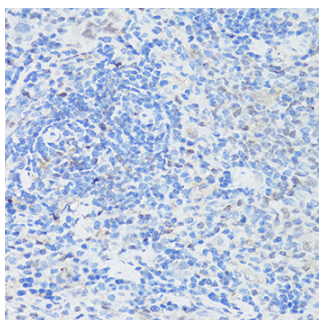
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 55-160 of human CASP3 (NP_004337.2).
Gene ID	836
Swiss Prot	P42574
Synonyms	CPP32; CPP32B; SCA-1

Product information

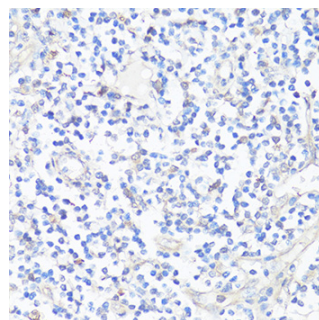
Source	Rabbit
Isotype	IgG
Purity	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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.



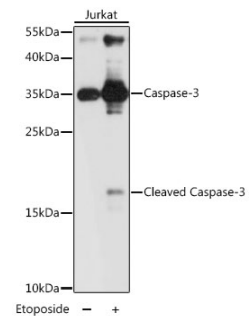
Immunohistochemistry of paraffin-embedded rat spleen using CASP3 antibody (A2156) at dilution of 1:100 (40x lens).



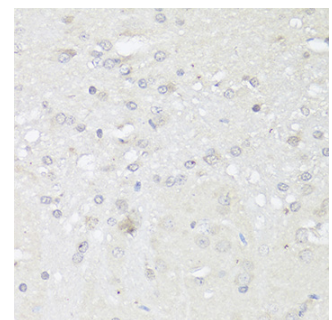
Immunohistochemistry of paraffin-embedded human tonsil using CASP3 antibody (A2156) at dilution of 1:100 (40x lens).

Recommended Dilutions

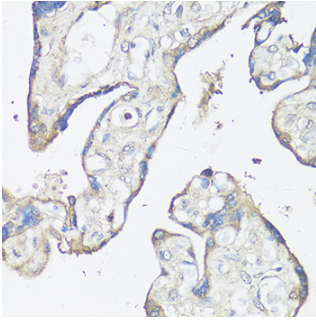
WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200



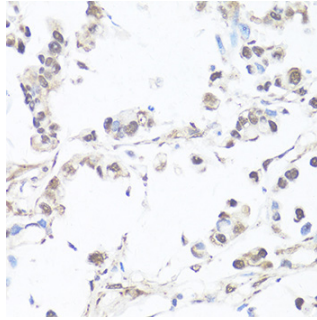
Western blot analysis of extracts of Jurkat cells, using CASP3 antibody (A2156) at 1:1000 dilution. Jurkat cells treated by Etoposide 25uM etoposide for 5 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.



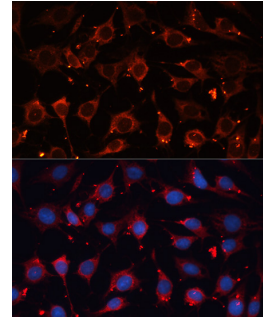
Immunohistochemistry of paraffin-embedded rat brain using CASP3 antibody (A2156) at dilution of 1:100 (40x lens).



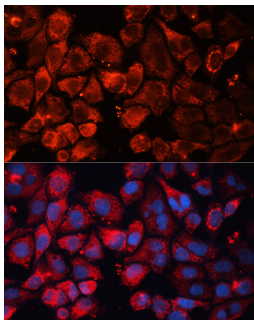
Immunohistochemistry of paraffin-embedded human placenta using CASP3 antibody (A2156) at dilution of 1:100 (40x lens).



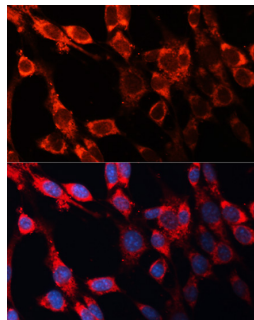
Immunohistochemistry of paraffin-embedded human gastric cancer using CASP3 antibody (A2156) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of C6 cells using CASP3 antibody (A2156) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using CASP3 antibody (A2156) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using CASP3 antibody (A2156) at dilution of 1:100. Blue: DAPI for nuclear staining.