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Caspase3 Polyclonal Antibody

(Catalog #A71051)

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.

Description
Caspase3 Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Specificity
Human, Mouse, Rat

Isotype
IgG

Uniprot ID
P42574

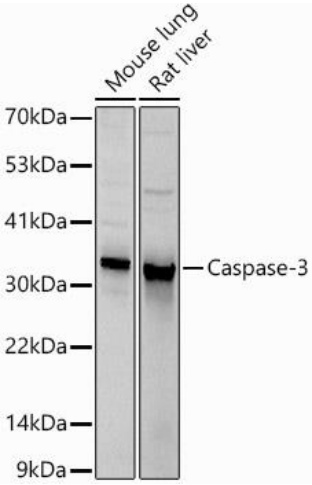
Purification
Affinity Purification

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 6-105 of human Caspase-3 (NP_004337.2).

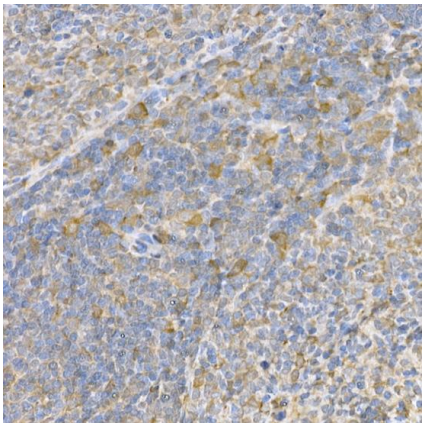
Storage
Shipped at 4°C. Upon receipt, store at -20°C. Avoid freeze / thaw cycles

Alternative Names
CASP3; CPP32; CPP32B; SCA-1; caspase-3

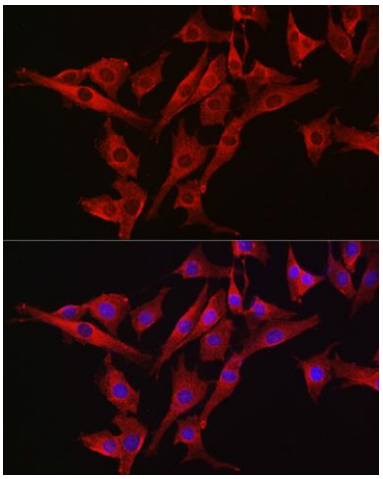
Application
WB, IHC, IF; Recommended dilution: WB 1:500 - 1:1000, IHC 1:50 - 1:200, IF 1:100 - 1:500



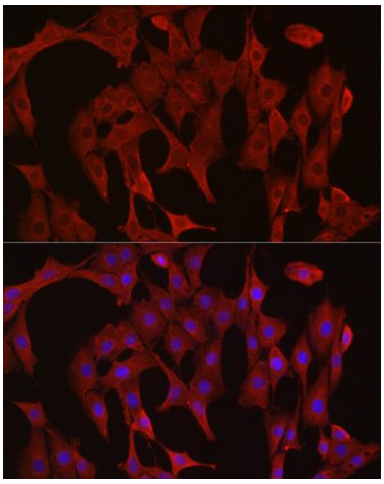
Western blot analysis of extracts of various cell lines, using Caspase3 Polyclonal Antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 5s.



Immunohistochemistry analysis of paraffin-embedded rat spleen using Caspase3 Polyclonal Antibody at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of NIH/3T3 cells using Caspase3 Polyclonal Antibody at dilution of 1:300 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using Caspase3 Polyclonal Antibody at dilution of 1:300 (40x lens). Blue: DAPI for nuclear staining.

