

Rabbit active + pro Caspase-3 Monoclonal Antibody | anti-CASP3 antibody

[KO Validated] active + pro Caspase-3 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282023	Rabbit	Human, Mouse, Rat	Immunofluorescence, Western Blot

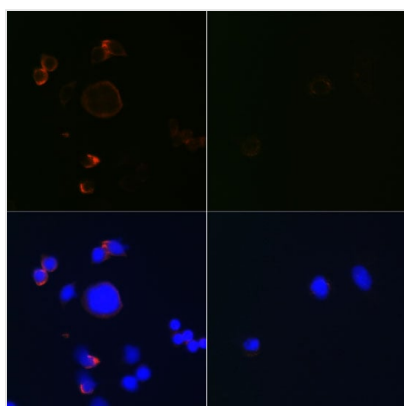
PRODUCT SYNONYMS

active + pro Caspase-3; Monoclonal Antibody; [KO Validated] active + pro Caspase-3 Rabbit mAb; CPP32; CPP32B; SCA-1; Active Caspase 3; CASP3; active Caspase-3; Caspase 3; Caspase-3 p12; caspase-3; anti-CASP3 antibody

PRODUCT SPECIFICATIONS

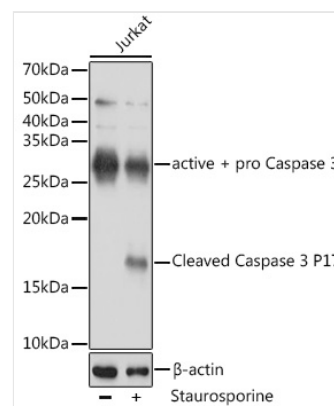
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Applicable Applications for anti-CASP3 antibody	IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human active + pro Caspase-3.
Cellular Location	Cytoplasm
Positive Samples	Jurkat, Mouse lung, Mouse liver, NIH/3T3, Rat spleen, Rat liver, 293T
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



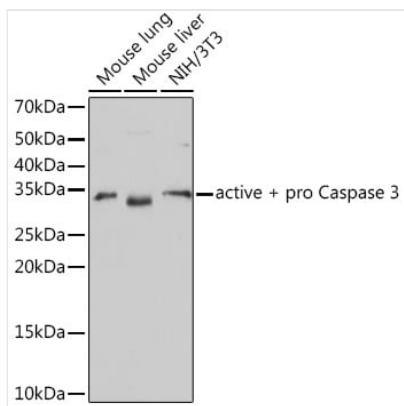
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using active + pro Caspase-3 antibody. HeLa cells were treated by Etoposide (25 μ M) at 37 $^{\circ}$ C for 5 hours. Blue: DAPI for nuclear staining.



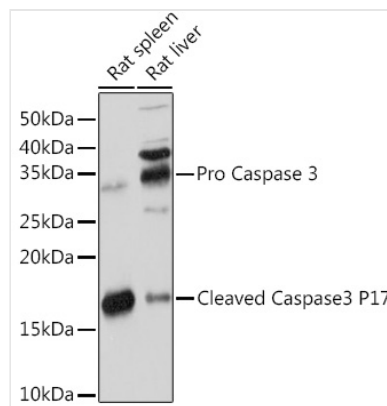
WB (Western Blot)

Western blot analysis of extracts of Jurkat cells, using active + pro Caspase 3 antibody at 1:1000 dilution. Jurkat cells were treated by Staurosporine (1uM) at room temperature for 3 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: 30s.



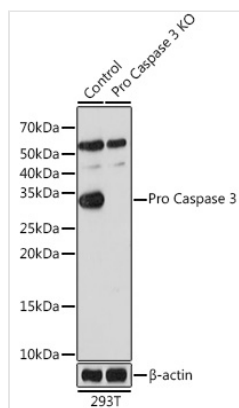
WB (Western Blot)

Western blot analysis of extracts of various cell lines, using active + pro Caspase-3 antibody 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.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using active + pro Caspase-3 antibody 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: 90s.



WB (Western Blot)

Western blot analysis of extracts from normal (control) and active + pro Caspase-3 knockout (KO) 293T cells, using active + pro Caspase-3 antibody 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: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-CASP3 antibody

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. [provided by RefSeq, Jul 2008]

Product Categories/Family for anti-CASP3 antibody

Signal Transduction; ErbB-HER Signaling Pathway; Research; Cell Biology & Developmental Biology; Apoptosis; Caspases; Research; Cell Biology & Developmental Biology; Apoptosis; Mitochondrial Control of Apoptosis; Research; Cell Biology & Developmental Bio

NCBI AND UNIPROT INFORMATION

NCBI GI #	14790119
NCBI GeneID	836
NCBI Accession #	NP_004337.2
NCBI GenBank Nucleotide #	NM_004346.3

UniProt Accession #	P42574; Q96AN1; Q96KP2; A8K5M2; D3DP53
Molecular Weight	31,608 Da
NCBI Official Full Name	caspase-3 preproprotein
NCBI Official Synonym Full Names	caspase 3, apoptosis-related cysteine peptidase
NCBI Official Symbol	CASP3
NCBI Official Synonym Symbols	CPP32; SCA-1; CPP32B
NCBI Protein Information	caspase-3; CASP-3; CPP-32; apopain; procaspase3; protein Yama; PARP cleavage protease; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis-related cysteine protease
UniProt Protein Name	Caspase-3
UniProt Gene Name	CASP3
UniProt Synonym Gene Names	CPP32; CASP-3; CPP-32; SCA-1
UniProt Entry Name	CASP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/active-pro-caspase-3-antibody-immunofluorescence-western-blot-elisa/282023>