

Rabbit anti-Mouse, Rat Caspase-3(P17) Polyclonal Antibody | anti-CASP3 antibody

Anti-Caspase-3(P17) antibody

CATALOG # AAA45438	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Caspase-3(P17); Polyclonal Antibody; Anti-Caspase-3(P17) antibody; Caspase-3; caspase 3; apoptosis-related cysteine peptidase; A830040C14Rik antibody; Apopain antibody; Apopain precursor antibody; CASP 3 antibody; CASP-3 antibody; CASP3 antibody; Casp3a antibody; Caspase 3 antibody; Caspase 3 apoptosis related cysteine protease antibody; Caspase 3 p17 subunit antibody; Caspase 3; apoptosis-related cysteine peptidase antibody; apoptosis-related cysteine protease antibody; apoptosis-related cysteine protease a antibody; Caspase-3 subunit p17 antibody; Caspase3 antibody; CC3 antibody; CPP 32 antibody; CPP-32 antibody; CPP32 antibody; CPP32B antibody; Cysteine protease CPP32 antibody; EC 3.4.22.56 antibody; Human cysteine protease CPP32 isoform alpha mRNA complete cds antibody; ICE3 antibody; LICE antibody; mldy antibody; OTTHUMP00000165052 antibody; OTTHUMP00000165053 antibody; OTTHUMP00000165054 antibody; PARP cleavage protease antibody; Procaspase3 antibody; Protein Yama antibody; SCA 1 antibody; SCA-1 antibody; SCA1 antibody; SREBP cleavage activity 1 antibody; Yama antibody; Yama protein antibody; anti-CASP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	277
Applicable Applications for anti-CASP3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Caspase-3 (P17) (67-81aa TDVDAANLRETFMGL), different from the related rat sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 3. Western blot analysis of Caspase-3 (P17) using anti- Caspase-3 (P17) antibody (AAA45438).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: mouse thymus tissue lysates,Lane 2: mouse spleen tissue lysates,Lane 3: mouse lung tissue lysates,Lane 4: mouse brain tissue lysates,Lane 5: mouse testis tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Caspase-3 (P17) antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Caspase-3 (P17) at approximately 32KD,19KD. The expected band size for Caspase-3 (P17) is at 32KD,17KD.



WB (Western Blot)

Figure 1. Western blot analysis of Caspase-3 (P17) using anti- Caspase-3 (P17) antibody (AAA45438).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Rat Heart Tissue LysateLane 2: Rat Liver Tissue LysateLane 3: Rat Thymus Tissue LysateLane 4: Rat Spleen Tissue Lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Caspase-3 (P17) antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Caspase-3 (P17) at approximately 32KD,19KD. The expected band size for Caspase-3 (P17) is at 32KD,17KD.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Caspase-3 (P17)using anti- Caspase-3 (P17)antibody (AAA45438).Caspase-3 (P17)was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- Caspase-3 (P17)Antibody (AAA45438) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CASP3 antibody	CASP3(Caspase3 Apoptosis-Related Cysteine Protease), also known as YAMA, CPP32 or APOPAIN, is a caspase protein that interacts with caspase 8 and caspase 9. It is encoded by the CASP3 gene. The CASP3 protein is a member of the cysteine-aspartic acid protease(caspase) family. Tiso et al.(1996) used radiation hybrid mapping to localize the CPP32 gene to human chromosome 4q33-q35.1. Fernandes-Alnemri et al.(1994) found that overexpression of CPP32 in insect cells induced apoptosis. Coexpression of the 2 CPP32 subunits in insect cells also resulted in apoptosis. Tewari et al.(1995) showed that purified human ICE cleaved the Yama proenzyme into a proteolytically active form and that activated Yama cleaved PARP into the 85-kD apoptotic form.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2493527
NCBI GeneID	12367
UniProt Accession #	P70677; O08668; Q8CHV5; Q9QWI4
NCBI Official Full Name	Caspase-3
NCBI Official Synonym Full Names	caspase 3
NCBI Official Symbol	Casp3
NCBI Official Synonym Symbols	CC3; AC-3; Lice; Yama; mldy; CPP32; SCA-1; CASP-3; CPP-32; Apopain; Caspase-3; A830040C14Rik

NCBI Protein Information	caspase-3; protein Yama; 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_MOUSE

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/polyclonal/caspase-3p17-antibody-immunohistochemistry-western-blot-elisa/45438>