

Rabbit anti-Human, Mouse Caspase 8 Polyclonal Antibody | anti-CASP8 antibody

Caspase 8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329582	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

Caspase 8; Polyclonal Antibody; Caspase 8 Antibody; ALPS2B; Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 12 protein; Apoptotic cysteine protease; Apoptotic protease Mch-5; Apoptotic protease Mch5; CAP4; CASP-8; CASP8; CASP8_HUMAN; Caspase 8 apoptosis related cysteine peptidase; Caspase-8 subunit p10; CED 3; FADD Like ICE; FADD-homologous ICE/CED-3-like protease; FADD-like ICE; FLICE; FLJ17672; ICE-like apoptotic protease 5; MACH alpha 1/2/3 protein; MACH; MACH beta 1/2/3/4 protein; MCH5; MGC78473; MORT1 associated ced 3 homolog; MORT1-associated CED-3 homolog; OTTHUMP00000163717; OTTHUMP00000163720; OTTHUMP00000163724; OTTHUMP00000163725; OTTHUMP00000165062; OTTHUMP00000165063; OTTHUMP00000165064; OTTHUMP00000206552; OTTHUMP00000206582; anti-CASP8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Caspase 8 Antibody detects endogenous levels of total Caspase 8. Tissue Specificity: Isoform 1, isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes, spleen, thymus and liver. Barely detectable in brain, testis and skeletal muscle.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CASP8 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Caspase 8.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Generation of the subunits requires association with the death-inducing signaling complex (DISC), whereas additional processing is likely due to the autocatalytic activity of the activated protease. GZMB and CASP10 can be involved in these processing events. Phosphorylation on Ser-387 during mitosis by CDK1 inhibits activation by proteolysis and prevents apoptosis. This phosphorylation occurs in cancer cell lines, as well as in primary breast tissues and lymphocytes.
Subunit Structure	Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 18kDa (p18) and a 10kDa (p10) subunit. Interacts with FADD, CFLAR and PEA15. Isoform 9 interacts at the endoplasmic reticulum with a complex containing BCAP31, BAP29, BCL2 and/or BCL2L1. Interacts with TNFAIP8L2 (By similarity). Interacts with CASP8AP2. Interacts with RFFL and RNF34; negatively regulate CASP8 through proteasomal degradation. Interacts with NOL3; decreases CASP8 activity in a mitochondria localization- and phosphorylation-dependent manner and this interaction is dissociated by calcium. Interacts with UBR2. Interacts with RIPK1 (By similarity). Interacts with stimulated TNFRSF10B; this interaction is followed by CASP8 proteolytic cleavage and activation. (Microbial infection) Interacts with human cytomegalovirus/HHV-5 protein vICA/UL36; this interaction inhibits CASP8 activation. (Microbial infection) Interacts with NleF from pathogenic E.coli. (Microbial infection) Interacts with molluscum contagiosum virus protein MC160.

Similarity	Isoform 9 contains a N-terminal extension that is required for interaction with the BCAP31 complex.Belongs to the peptidase C14A family.
Subcellular Location	Cytoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(AF6588) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI (blue).



WB (Western Blot)

Western blot analysis of extracts from P19 cells(serum starvation treatment), using Caspase 8 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CASP8 antibody	Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-I-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex. Cleaves RIPK1 at 'Asp-325' which is crucial for limiting apoptosis and necroptosis during embryonic development (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	122056474
NCBI GeneID	841
NCBI Accession #	NP_001073593.1
NCBI GenBank Nucleotide #	NM_001080124.1
UniProt Accession #	Q14790; O14676; Q14791; Q14792; Q14793; Q14794; Q14795; Q14796; Q15780; Q15806; Q53TT5; Q8TDI1
Molecular Weight	55,391 Da
NCBI Official Full Name	caspase-8 isoform C
NCBI Official Synonym Full Names	caspase 8, apoptosis-related cysteine peptidase
NCBI Official Symbol	CASP8
NCBI Official Synonym Symbols	CAP4; MACH; MCH5; FLICE; ALPS2B; Casp-8
NCBI Protein Information	caspase-8; FADD-like ICE; MACH-alpha-1/2/3 protein; apoptotic protease Mch-5; MACH-beta-1/2/3/4 protein; apoptotic cysteine protease; ICE-like apoptotic protease 5; MORT1-associated ced-3 homolog; FADD-homologous ICE/CED-3-like protease; caspase 8, apopto
UniProt Protein Name	Caspase-8
UniProt Gene Name	CASP8
UniProt Synonym Gene Names	MCH5; CASP-8; FLICE; MACH

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-8-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-western-blot-elisa/329582>