

Rabbit CASP10 Polyclonal Antibody | anti-CASP10 antibody

CASP10 Antibody

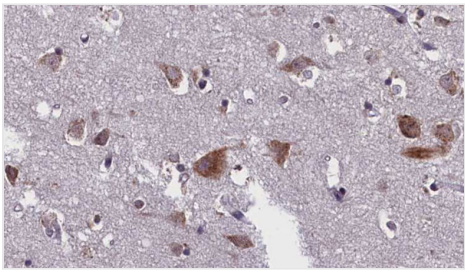
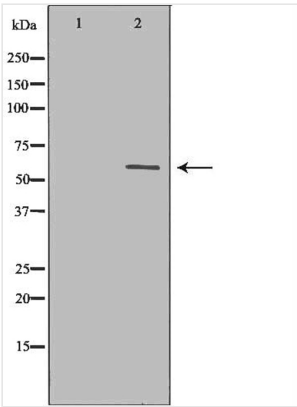
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325831	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CASP10; Polyclonal Antibody; CASP10 Antibody; ALPS2; Apoptotic protease Mch-4; CASP 10; CASP-10; CASPA_HUMAN; Caspase 10 apoptosis related cysteine peptidase; Caspase-10 subunit p12; FADD like ICE2; Fas associated death domain protein; FAS-associated death domain protein interleukin-1B-converting enzyme 2; FLICE 2; FLICE2; ICE like apoptotic protease 4; ICE-like apoptotic protease 4; Interleukin 1B converting enzyme 2; MCH 4; anti-CASP10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CASP10 antibody detects endogenous levels of total CASP10
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	455
Applicable Applications for anti-CASP10 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CASP10
Tissue Specificity	Detectable in most tissues. Lowest expression is seen in brain, kidney, prostate, testis and colon.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA325831 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of Jurkat using CASP10 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CASP10 antibody

Description: Caspase-10 is a DED (death effector domain)-containing caspase and functions as an initiator caspase in Fas/TNF induced apoptosis (1). Four isoforms of caspase-10 have been identified: caspase-10a (Mch4), caspase-10b (FLICE2), caspase-10c and caspase-10d. They have the same prodomain but different mature large and small subdomains (2-4). Upon death ligand-receptor binding, caspase-10 is coupled to the multimeric Fas/TNF receptor complex via DED/FADD adaptor interaction (1-4). This complex processes procaspase-10 into a large active fragment and a small fragment. Cleaved caspase-10 further processes other caspase members, including caspase-3 and caspase-7, to initiate a caspase cascade, leading to apoptosis (3-6).

Function: Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates caspase-3, -4, -6, -7, -8, and -9. Hydrolyzes the small-molecule substrates, Tyr-Val-Ala-Asp|-AMC and Asp-Glu-Val-Asp|-AMC.

Subunit Structure: Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 23/17 kDa (p23/17) (depending on the splicing events) and a 12 kDa (p12) subunit (By similarity). Self-associates. Interacts with FADD and CASP8. Found in a Fas signaling complex consisting of FAS, FADD, CASP8 and CASP10. Interacts with RFFL and RNF34; negatively regulate CASP10 through proteasomal degradation. Interacts with RIOK3.

Post-translational Modifications: Cleavage by granzyme B and autocatalytic activity generate the two active subunits.

Similarity: Belongs to the peptidase C14A family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	330864823
NCBI GeneID	843
NCBI Accession #	NP_001193453.1
NCBI GenBank Nucleotide #	NM_001206524.1
UniProt Accession #	Q92851; Q68HC0; Q6KF62; Q6KF63; Q8IUP5; Q8WYQ8; Q99845; Q9Y2U6; Q9Y2U7
Molecular Weight	Observed: 59 kDa Predicted: 59 kDa
NCBI Official Full Name	caspase-10 isoform 6 preproprotein
NCBI Official Synonym Full Names	caspase 10
NCBI Official Symbol	CASP10
NCBI Official Synonym Symbols	MCH4; ALPS2; FLICE2

NCBI Protein Information	caspase-10
UniProt Protein Name	Caspase-10
UniProt Gene Name	CASP10
UniProt Synonym Gene Names	MCH4; CASP-10; FLICE2

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/casp10-antibody-immunohistochemistry-western-blot-elisa/325831>