

CASP6 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1313B

Specification

CASP6 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P55212
Other Accession	O35397 , O08738 , Q3T0P5
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	33310
Antigen Region	235-263

CASP6 Antibody (C-term) - Additional Information

Gene ID 839

Other Names

Caspase-6, CASP-6, Apoptotic protease Mch-2, Caspase-6 subunit p18, Caspase-6 subunit p11, CASP6, MCH2

Target/Specificity

This CASP6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 235-263 amino acids from the C-terminal region of human CASP6.

Dilution

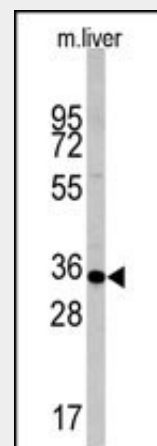
WB~~1:1000
IHC-P~~1:10~50

Format

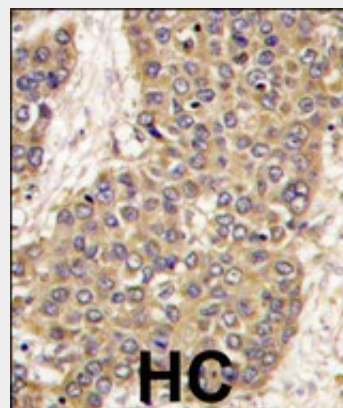
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



Western blot analysis of anti-CASP6 Antibody (C-term) (Cat.#AP1313b) in mouse liver tissue lysates (35ug/lane). CASP6 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with CASP6 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

CASP6 Antibody (C-term) - Background

CASP6 is a member of the cysteine-aspartic acid protease (caspase) family. Sequential

Precautions

CASP6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CASP6 Antibody (C-term) - Protein Information

Name CASP6

Synonyms MCH2

Function

Cysteine protease that plays essential roles in programmed cell death, axonal degeneration, development and innate immunity (PubMed:8663580, PubMed:32298652). During apoptosis, localizes in the nucleus and cleaves the nuclear structural protein NUMA1 and lamin A/LMNA thereby inducing nuclear shrinkage and fragmentation (PubMed:17401638, PubMed:8663580, PubMed:9463409). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed:10559921, PubMed:14657026). Plays an essential role in axon degeneration during axon pruning which is the remodeling of axons during neurogenesis but not apoptosis (By similarity). Regulates B-cell programs both during early development and after antigen stimulation (By similarity). In addition, promotes the ZBP1-mediated activation of programmed cell death pathways including pyroptosis, apoptosis, and necroptosis (PANoptosis) and plays an essential role in defense against viruses (PubMed:32298652).

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 2 subunits, large and small, that dimerize to form the active enzyme. This protein could be processed by caspases 7, 8 and 10, and is thought to function as a downstream enzyme in the caspase activation cascade.

CASP6 Antibody (C-term) - References

Schmeck, B., et al., Infect. Immun. 72(9):4940-4947 (2004).
Mendez, E., et al., J. Virol. 78(16):8601-8608 (2004).
MacLachlan, T.K., et al., Proc. Natl. Acad. Sci. U.S.A. 99(14):9492-9497 (2002).
Sordet, O., et al., Leukemia 16(8):1569-1570 (2002).
LeBlanc, A., et al., J. Biol. Chem. 274(33):23426-23436 (1999).

target="_blank">32298652).
Mechanistically, interacts with RIPK3 and enhances the interaction between RIPK3 and ZBP1, leading to ZBP1-mediated inflammasome activation and cell death (PubMed:32298652).

Cellular Location

Cytoplasm.

CASP6 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)