

Caspase 6 Rabbit mAb
Catalog # AP76421**Specification****Caspase 6 Rabbit mAb - Product Information**

Application	WB, IHC
Primary Accession	P55212
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	33310

Caspase 6 Rabbit mAb - Additional Information

Gene ID 839

Other Names

CASP6

Dilution

WB~~1/500-1/1000

IHC~~1/50-1/100

Format

Liquid

Caspase 6 Rabbit mAb - Protein InformationName CASP6 ([HGNC:1507](#))**Function**

Cysteine protease that plays essential roles in programmed cell death, axonal degeneration, development and innate immunity (PubMed: [19133298](http://www.uniprot.org/citations/19133298) , PubMed: [22858542](http://www.uniprot.org/citations/22858542) , PubMed: [27032039](http://www.uniprot.org/citations/27032039) , PubMed: [28864531](http://www.uniprot.org/citations/28864531) , PubMed: [30420425](http://www.uniprot.org/citations/30420425) , PubMed: [32298652](http://www.uniprot.org/citations/32298652) , PubMed: [8663580](http://www.uniprot.org/citations/8663580)). Acts as a non- canonical executioner caspase during apoptosis: localizes in the nucleus and cleaves the nuclear structural protein NUMA1 and lamin A/LMNA thereby inducing nuclear shrinkage and fragmentation (PubMed: [11953316](http://www.uniprot.org/citations/11953316) , PubMed: [17401638](http://www.uniprot.org/citations/17401638) , PubMed: [8663580](http://www.uniprot.org/citations/8663580) , PubMed: [9463409](http://www.uniprot.org/citations/9463409)). Lamin-A/LMNA cleavage is required for chromatin condensation and nuclear disassembly during apoptotic execution (PubMed: [11953316](http://www.uniprot.org/citations/11953316))

target="_blank">11953316). Acts as a regulator of liver damage by promoting hepatocyte apoptosis: in absence of phosphorylation by AMP-activated protein kinase (AMPK), catalyzes cleavage of BID, leading to cytochrome c release, thereby participating in nonalcoholic steatohepatitis (PubMed:32029622). Cleaves PARK7/DJ-1 in cells undergoing apoptosis (By similarity). Involved in intrinsic apoptosis by mediating cleavage of RIPK1 (PubMed:22858542). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed:10559921, PubMed:14657026). Cleaves phospholipid scramblase proteins XKR4 and XKR9 (By similarity). In addition to apoptosis, involved in different forms of programmed cell death (PubMed:32298652). Plays an essential role in defense against viruses by acting as a central mediator of the ZBP1-mediated pyroptosis, apoptosis, and necroptosis (PANoptosis), independently of its cysteine protease activity (PubMed:32298652). PANoptosis is a unique inflammatory programmed cell death, which provides a molecular scaffold that allows the interactions and activation of machinery required for inflammasome/pyroptosis, apoptosis and necroptosis (PubMed:32298652). Mechanistically, interacts with RIPK3 and enhances the interaction between RIPK3 and ZBP1, leading to ZBP1-mediated inflammasome activation and cell death (PubMed:32298652). 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).

Cellular Location

Cytoplasm. Nucleus

Caspase 6 Rabbit mAb - 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](#)

Caspase 6 Rabbit mAb - Images



