

Caspase-6 Polyclonal Antibody
Catalog # AP63180**Specification****Caspase-6 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P55212
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

Caspase-6 Polyclonal Antibody - Additional Information**Gene ID** 839**Other Names**

CASP6; MCH2; Caspase-6; CASP-6; Apoptotic protease Mch-2

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Caspase-6 Polyclonal Antibody - Protein Information**Name** CASP6 ([HGNC:1507](#))**Function**

Cysteine protease that plays essential roles in programmed cell death, axonal degeneration, development and innate immunity (PubMed:<[a href="http://www.uniprot.org/citations/19133298" target="_blank">19133298](http://www.uniprot.org/citations/19133298), PubMed:<[a href="http://www.uniprot.org/citations/22858542" target="_blank">22858542](http://www.uniprot.org/citations/22858542), PubMed:<[a href="http://www.uniprot.org/citations/27032039" target="_blank">27032039](http://www.uniprot.org/citations/27032039), PubMed:<[a href="http://www.uniprot.org/citations/28864531" target="_blank">28864531](http://www.uniprot.org/citations/28864531), PubMed:<[a href="http://www.uniprot.org/citations/30420425" target="_blank">30420425](http://www.uniprot.org/citations/30420425), PubMed:<[a href="http://www.uniprot.org/citations/32298652" target="_blank">32298652](http://www.uniprot.org/citations/32298652), PubMed:<[a href="http://www.uniprot.org/citations/8663580" target="_blank">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:<[a href="http://www.uniprot.org/citations/11953316" target="_blank">11953316](http://www.uniprot.org/citations/11953316), PubMed:<[a href="http://www.uniprot.org/citations/17401638" target="_blank">17401638](http://www.uniprot.org/citations/17401638), PubMed:<[a href="http://www.uniprot.org/citations/8663580" target="_blank">8663580](http://www.uniprot.org/citations/8663580), PubMed:<[a href="http://www.uniprot.org/citations/9463409" target="_blank">9463409](http://www.uniprot.org/citations/9463409)). Lamin-A/LMNA cleavage is required for chromatin condensation and nuclear disassembly during apoptotic

execution (PubMed: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

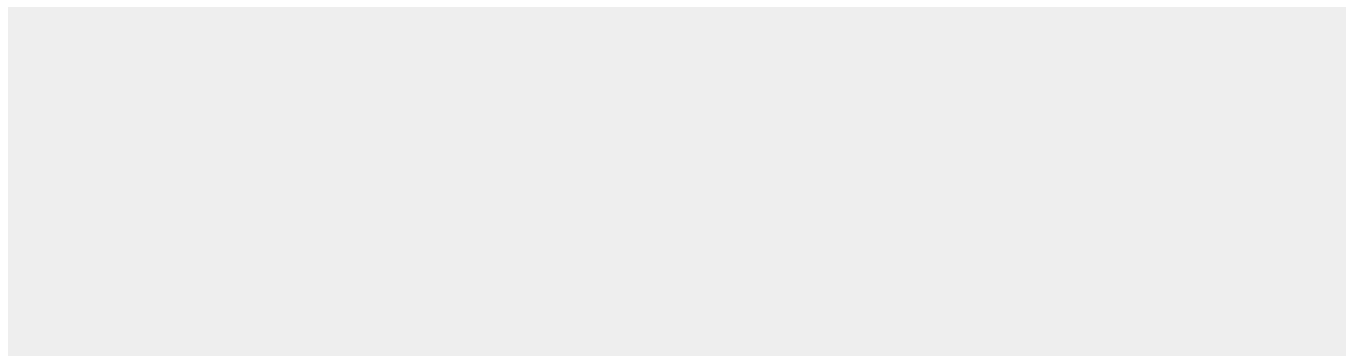
Cytoplasm. Nucleus

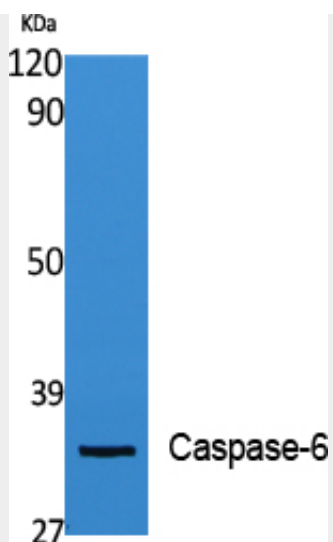
Caspase-6 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images





Caspase-6 Polyclonal Antibody - Background

Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves poly(ADP-ribose) polymerase in vitro, as well as lamins. Overexpression promotes programmed cell death.