

**Caspase 6 p18 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51046****Specification**

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**Caspase 6 p18 Antibody - Product Information**

Application	<b>WB, IHC-P, E</b>
Primary Accession	<a href="#">P55212</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>28, 35 KDa</b>

**Caspase 6 p18 Antibody - 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

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Caspase 6 p18 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: [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:<a href="http://www.uniprot.org/citations/11953316" target="\_blank">11953316</a>). 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:<a href="http://www.uniprot.org/citations/32029622" target="\_blank">32029622</a>). Cleaves PARK7/DJ-1 in cells undergoing apoptosis (By similarity). Involved in intrinsic apoptosis by mediating cleavage of RIPK1 (PubMed:<a href="http://www.uniprot.org/citations/22858542" target="\_blank">22858542</a>). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed:<a href="http://www.uniprot.org/citations/10559921" target="\_blank">10559921</a>, PubMed:<a href="http://www.uniprot.org/citations/14657026" target="\_blank">14657026</a>). Cleaves phospholipid scramblase proteins XKR4 and XKR9 (By similarity). In addition to apoptosis, involved in different forms of programmed cell death (PubMed:<a href="http://www.uniprot.org/citations/32298652" target="\_blank">32298652</a>). 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:<a href="http://www.uniprot.org/citations/32298652" target="\_blank">32298652</a>). 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:<a href="http://www.uniprot.org/citations/32298652" target="\_blank">32298652</a>). Mechanistically, interacts with RIPK3 and enhances the interaction between RIPK3 and ZBP1, leading to ZBP1-mediated inflammasome activation and cell death (PubMed:<a href="http://www.uniprot.org/citations/32298652" target="\_blank">32298652</a>). 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 p18 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 p18 Antibody - Images

### Caspase 6 p18 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.

### Caspase 6 p18 Antibody - References

Fernandes-Alnemri T.,et al.Cancer Res. 55:2737-2742(1995).  
Srinivasula S.M.,et al.J. Biol. Chem. 271:27099-27106(1996).

Bartke T.,et al.Mol. Cell 14:801-811(2004).  
Suzuki A.,et al.Oncogene 23:7067-7075(2004).  
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).