

**Caspase-6 Antibody**  
**Rabbit mAb**  
**Catalog # AP93197****Specification**

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**Caspase-6 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P55212</a>
Reactivity	<b>Rat</b>
Clonality	<b>Monoclonal</b>

**Other Names**

Apoptotic protease Mch-2; CASP-6; CASP6; Caspase 6; Caspase 6 apoptosis related cysteine protease; Caspase 6, apoptosis related cysteine peptidase; Caspase-6; Caspase-6 subunit p11; Mch2;

Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>33310 Da</b>

**Caspase-6 Antibody - Additional Information**

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Caspase-6</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

**Caspase-6 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) target="\_blank">19133298</a>, PubMed: [22858542](http://www.uniprot.org/citations/22858542) target="\_blank">22858542</a>, PubMed: [27032039](http://www.uniprot.org/citations/27032039) target="\_blank">27032039</a>, PubMed: [28864531](http://www.uniprot.org/citations/28864531) target="\_blank">28864531</a>, PubMed: [30420425](http://www.uniprot.org/citations/30420425) target="\_blank">30420425</a>, PubMed: [32298652](http://www.uniprot.org/citations/32298652) target="\_blank">32298652</a>, PubMed: [8663580](http://www.uniprot.org/citations/8663580) target="\_blank">8663580</a>)

target="\_blank">8663580</a>). 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</a>, PubMed:<a href="http://www.uniprot.org/citations/17401638" target="\_blank">17401638</a>, PubMed:<a href="http://www.uniprot.org/citations/8663580" target="\_blank">8663580</a>, PubMed:<a href="http://www.uniprot.org/citations/9463409" target="\_blank">9463409</a>). 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

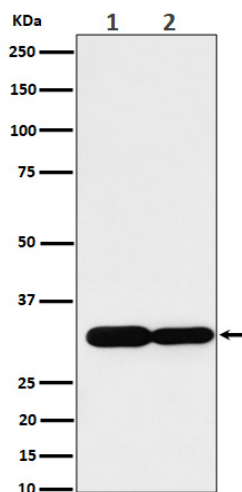
### Caspase-6 Antibody - Protocols

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 Antibody - Images





Western blot analysis of Caspase-6 expression in (1) Mouse spleen lysate; (2) Rat kidney cell lysate.