

**Cleaved-Caspase-6 p18 (D179) Polyclonal Antibody**  
Catalog # AP63083**Specification****Cleaved-Caspase-6 p18 (D179) Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P55212</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal

**Cleaved-Caspase-6 p18 (D179) 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. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. 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

**Cleaved-Caspase-6 p18 (D179) 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: [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>). 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) target="\_blank">11953316</a>, PubMed: [17401638](http://www.uniprot.org/citations/17401638) target="\_blank">17401638</a>, PubMed: [8663580](http://www.uniprot.org/citations/8663580) target="\_blank">8663580</a>, PubMed: [9463409](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

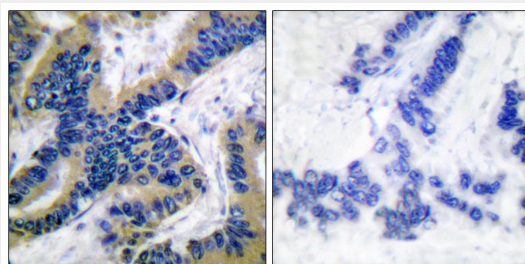
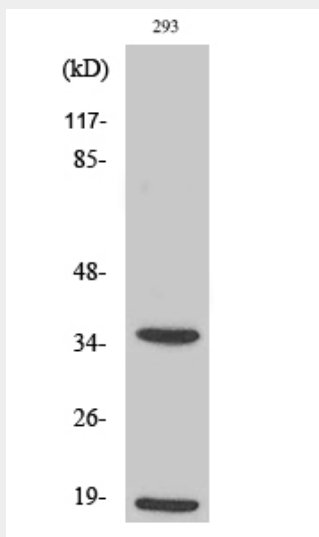
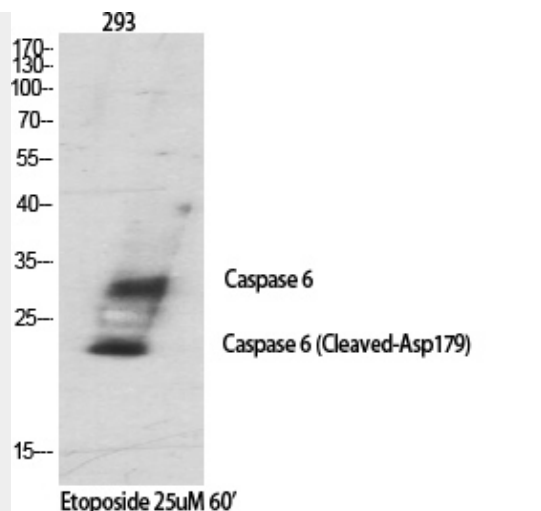
#### Cleaved-Caspase-6 p18 (D179) Polyclonal Antibody - Protocols

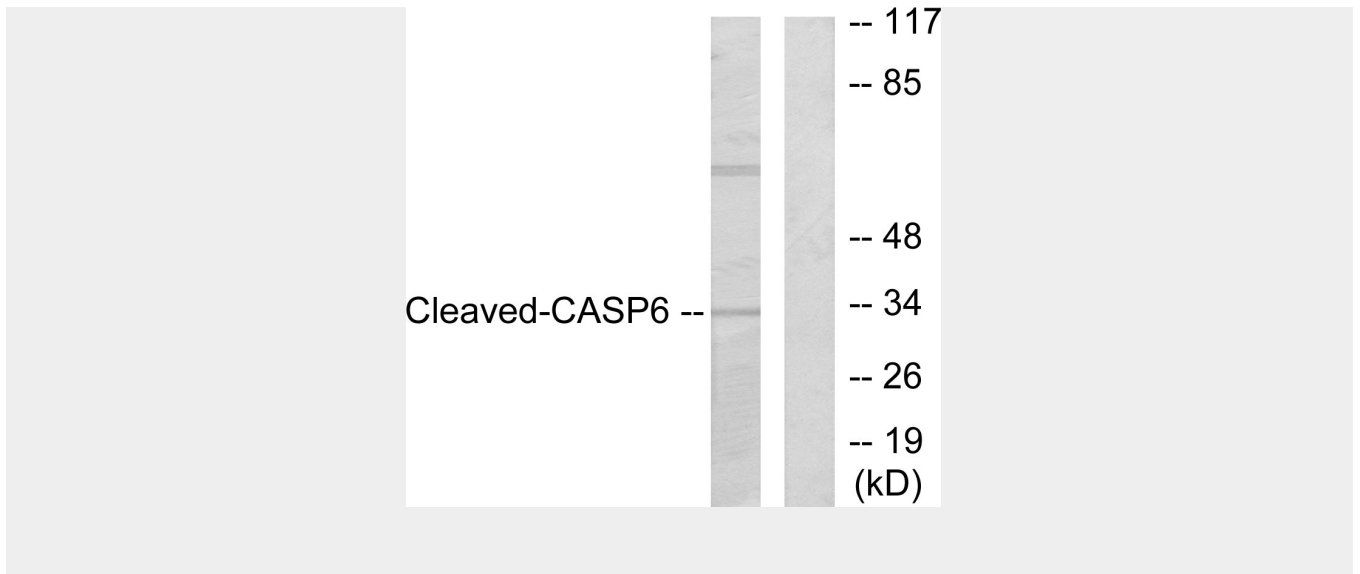
Provided below are standard protocols that you may find useful for product applications.

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

#### Cleaved-Caspase-6 p18 (D179) Polyclonal Antibody - Images







#### **Cleaved-Caspase-6 p18 (D179) 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.