

Caspase-6 (16F8) Rabbit Monoclonal Antibody
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Catalog # AP93679**Specification****Caspase-6 (16F8) Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC
Primary Accession	P55212
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	33310

Caspase-6 (16F8) Rabbit Monoclonal Antibody - Additional Information**Gene ID** 839**Other Names**

Caspase-6, CASP-6, CSP-6, 3.4.22.59, Apoptotic protease Mch-2, Caspase-6 subunit p18, Caspase-6 subunit p20, Caspase-6 subunit p11, Caspase-6 subunit p10, CASP6 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1507)
target="_blank">HGNC:1507)

Dilution

WB~~1:1000
IHC~~1:100~500

Storage Conditions

-20°C

Caspase-6 (16F8) Rabbit Monoclonal 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:[8663580](http://www.uniprot.org/citations/8663580)).

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

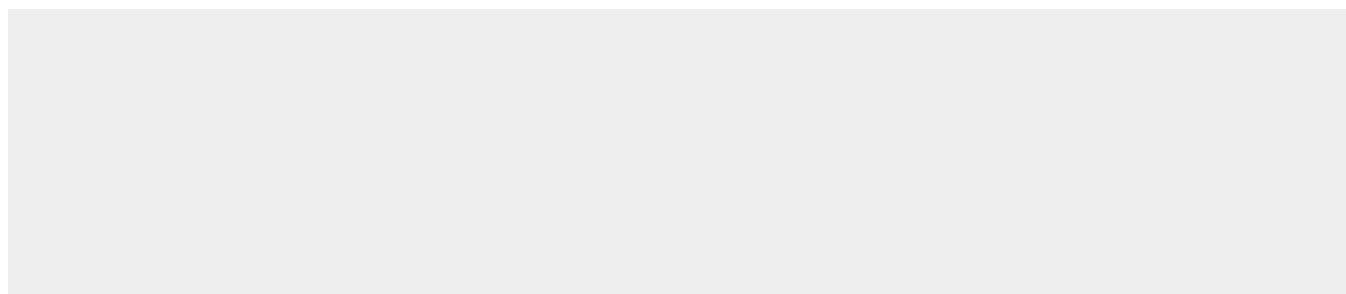
Cytoplasm. Nucleus

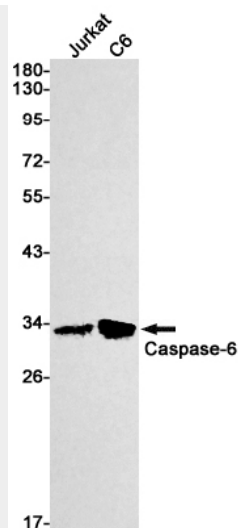
Caspase-6 (16F8) Rabbit Monoclonal Antibody - Protocols

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 (16F8) Rabbit Monoclonal Antibody - Images





Western blot detection of Caspase-6 in Jurkat,C6 cell lysates using Caspase-6 antibody(1:1000 diluted).