

# Caspase-6 (16F8) Rabbit Monoclonal Antibody

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Catalog # AP93679

## Product Information

Application	WB, IHC
Primary Accession	<a href="#">P55212</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	33310

## 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 ( <a href="#">HGNC:1507</a> )
Dilution	WB~~1:1000 IHC~~1:100~500
Storage Conditions	-20°C

## Protein Information

Name	CASP6 ( <a href="#">HGNC:1507</a> )
Function	<p>Cysteine protease that plays essential roles in programmed cell death, axonal degeneration, development and innate immunity (PubMed:<a href="#">19133298</a>, PubMed:<a href="#">22858542</a>, PubMed:<a href="#">27032039</a>, PubMed:<a href="#">28864531</a>, PubMed:<a href="#">30420425</a>, PubMed:<a href="#">32298652</a>, PubMed:<a href="#">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="#">11953316</a>, PubMed:<a href="#">17401638</a>, PubMed:<a href="#">8663580</a>, PubMed:<a href="#">9463409</a>). Lamin-A/LMNA cleavage is required for chromatin condensation and nuclear disassembly during apoptotic execution (PubMed:<a href="#">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="#">32029622</a>). Cleaves PARK7/DJ-1 in cells undergoing apoptosis (By similarity). Involved in intrinsic apoptosis by mediating cleavage of RIPK1 (PubMed:<a href="#">22858542</a>). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed:<a href="#">10559921</a>, PubMed:<a href="#">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="#">32298652</a>). Plays an</p>

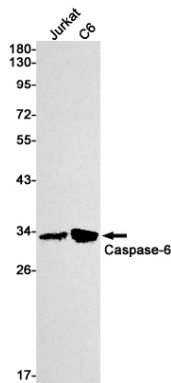
essential role in defense against viruses by acting as a central mediator of the ZBP1-mediated pyroptosis, apoptosis, and necroptosis (PANoptosis), independently of its cysteine protease activity (PubMed:[32298652](#)). PANoptosis is a unique inflammatory programmed cell death, which provides a molecular 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

#### Images

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.