

KO-Validated Anti-Caspase 6 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2419**Specification****KO-Validated Anti-Caspase 6 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P55212
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 33 kDa, observed, 33 kDa kDa
Gene Name	CASP6
Aliases	CASP6; Caspase 6; CSP-6; MCH2; Caspase-6; Caspase 6, Apoptosis-Related Cysteine Peptidase; Caspase 6, Apoptosis-Related Cysteine Protease; Mammalian Ced-3 Homologue 2; EC 3.4.22.59; Apoptotic Protease MCH-2; Apoptotic Protease Mch-2; CASPASE-6; EC 3.4.22; CASP-6
Immunogen	A synthesized peptide derived from human Caspase-6

KO-Validated Anti-Caspase 6 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)	

KO-Validated Anti-Caspase 6 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, PubMed:17401638, PubMed:8663580, PubMed:9463409). Lamin-A/LMNA cleavage is required for chromatin condensation and nuclear disassembly during apoptotic execution (PubMed: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). Cleaves PARK7/DJ-1 in cells undergoing apoptosis (By similarity). Involved in intrinsic apoptosis by mediating cleavage of RIPK1 (PubMed:22858542). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed:10559921, PubMed:14657026). Cleaves phospholipid scramblase proteins XKR4 and XKR9 (By similarity). In addition to apoptosis, involved in different forms of programmed cell death (PubMed: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). 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

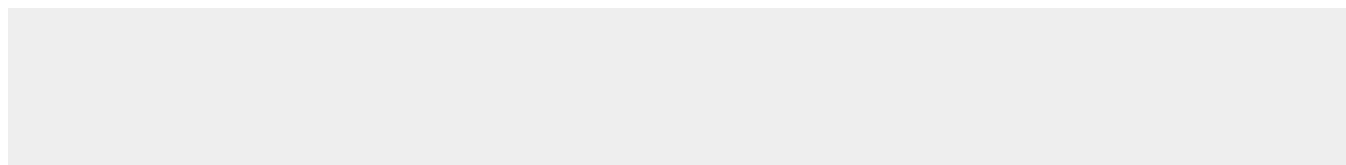
Cytoplasm. Nucleus

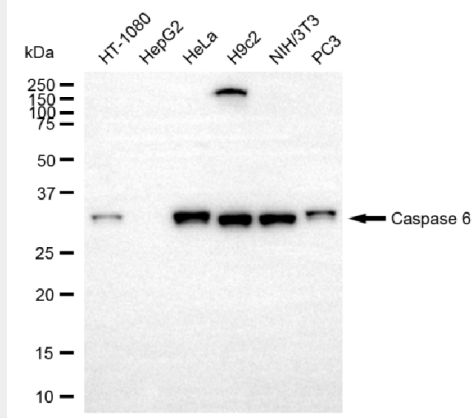
KO-Validated Anti-Caspase 6 Rabbit Monoclonal Antibody - Protocols

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](#)

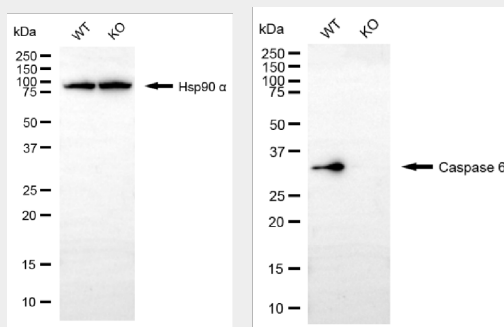
KO-Validated Anti-Caspase 6 Rabbit Monoclonal Antibody - Images





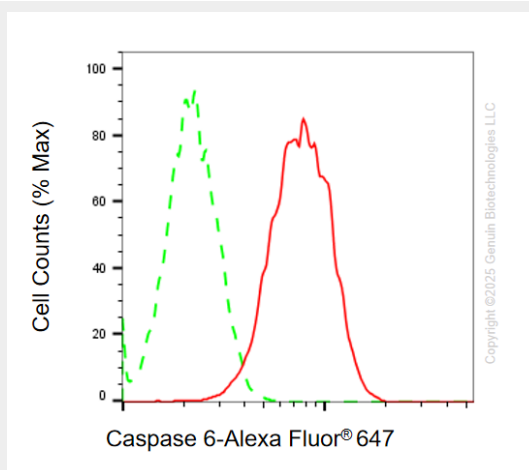
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Western blotting analysis using anti-Caspase 6 antibody (Cat#AGI2419). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Caspase 6 antibody (Cat#AGI2419, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-caspase 6 antibody (Cat#AGI2419). Caspase 6 expression in wild type (WT) and caspase 6 (CASP6) knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-caspase 6 antibody (Cat#AGI2419, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of Caspase 6 expression in HAP-1 cells using Caspase 6 antibody (Cat#AGI2419, 1:2,000). Green, isotype control; red, Caspase 6.