

**CASP6 Antibody (S257)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1313d**

**Specification**

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**CASP6 Antibody (S257) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P55212</a>
Other Accession	<a href="#">O35397</a> , <a href="#">O08738</a> , <a href="#">Q3TOP5</a>
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33310

**CASP6 Antibody (S257) - Additional Information**

**Gene ID** 839

**Other Names**

Caspase-6, CASP-6, Apoptotic protease Mch-2, Caspase-6 subunit p18, Caspase-6 subunit p11, CASP6, MCH2

**Target/Specificity**

This CASP6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide corresponding to amino acid residues surrounding S257 of human CASP6.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CASP6 Antibody (S257) is for research use only and not for use in diagnostic or therapeutic procedures.

**CASP6 Antibody (S257) - 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](#), PubMed:[22858542](#), PubMed:[27032039](#), PubMed:[28864531](#), PubMed:[30420425](#), PubMed:[32298652](#), PubMed:[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

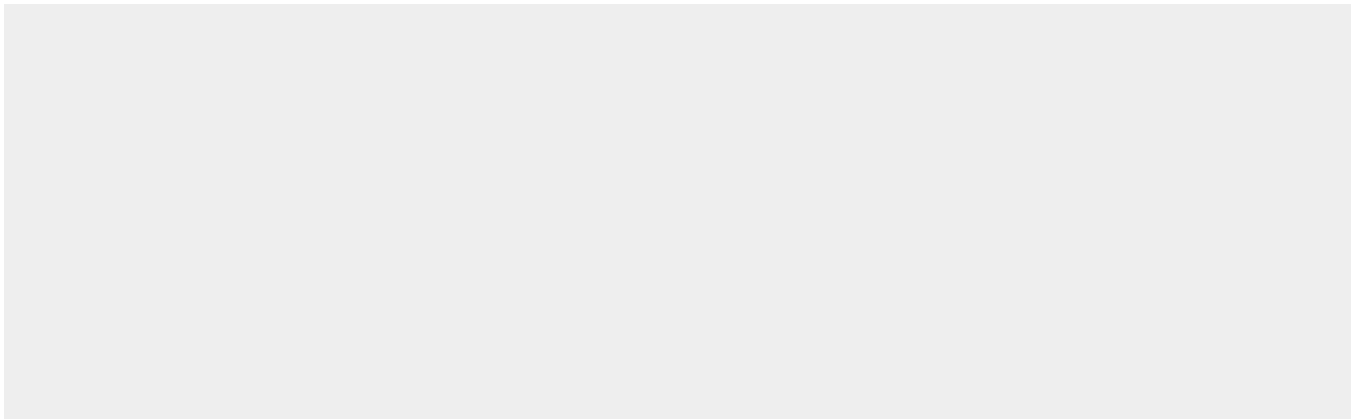
Cytoplasm. Nucleus

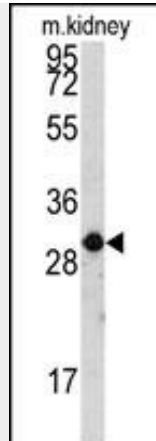
#### CASP6 Antibody (S257) - Protocols

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](#)

#### CASP6 Antibody (S257) - Images





Western blot analysis of anti-CASP6 Antibody (S257) Pab (Cat.#AP1313d) in mouse kidney tissue lysates (35ug/lane). CASP6 (arrow) was detected using the purified Pab.

### **CASP6 Antibody (S257) - Background**

CASP6 is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This protein could be processed by caspases 7, 8 and 10, and is thought to function as a downstream enzyme in the caspase activation cascade.

### **CASP6 Antibody (S257) - References**

- Schmeck, B., et al., *Infect. Immun.* 72(9):4940-4947 (2004).
- Mendez, E., et al., *J. Virol.* 78(16):8601-8608 (2004).
- MacLachlan, T.K., et al., *Proc. Natl. Acad. Sci. U.S.A.* 99(14):9492-9497 (2002).
- Sordet, O., et al., *Leukemia* 16(8):1569-1570 (2002).
- LeBlanc, A., et al., *J. Biol. Chem.* 274(33):23426-23436 (1999).