

Phospho-Caspase-6 (Ser257) antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11672**Specification**

Phospho-Caspase-6 (Ser257) antibody - Product Information

Application	WB
Primary Accession	P55212
Other Accession	O08738 (Mouse) , O35397 (Rat)
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33310

Phospho-Caspase-6 (Ser257) antibody - Additional Information**Gene ID** 839**Other Names**

CASP6; MCH2; Caspase-6; CASP-6; Apoptotic protease Mch-2

Target/Specificity

Caspase-6 (Ser257)

Formulation

100ug (1mg/ml) of antibody in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Handling

The antibody solution should be gently mixed before use

Background Descriptions**Precautions**

Phospho-Caspase-6 (Ser257) antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-Caspase-6 (Ser257) 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: [8663580](http://www.uniprot.org/citations/8663580), PubMed: [19133298](http://www.uniprot.org/citations/19133298), PubMed: [22858542](http://www.uniprot.org/citations/22858542), PubMed: [27032039](http://www.uniprot.org/citations/27032039))

target="_blank">27032039, PubMed:28864531, PubMed:30420425, PubMed:32298652). 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:8663580, PubMed:9463409, PubMed:11953316, PubMed:17401638). 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

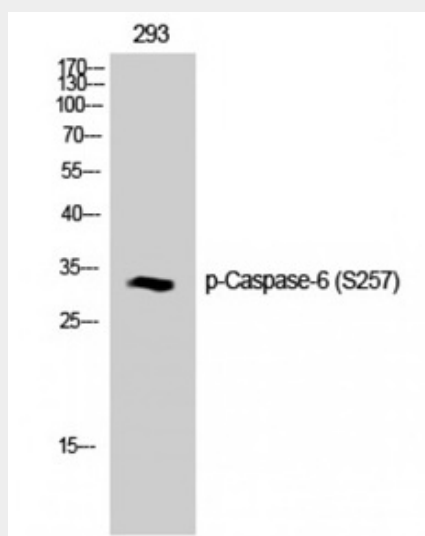
Cytoplasm. Nucleus

Phospho-Caspase-6 (Ser257) 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](#)

Phospho-Caspase-6 (Ser257) antibody - Images



Western blot analysis of 293 cells using Phospho-Caspase-6(Ser257) Polyclonal antibody.

Phospho-Caspase-6 (Ser257) antibody - Background

Caspases are the central components of the apoptotic response. Caspase 6 is a member of the cysteine-aspartic acid protease (caspase) family. Caspases are divided into two classes: the initiator caspases, which include caspase 2, 8, 9 and 10 and the effector caspases, which include caspases 3, 6 and 7. Effector caspases being activated by initiator caspases leads the proteolytic cleavage of a broad spectrum of cellular targets, which ultimately leads to cell death.