

**Casp3 Antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14598**

### Specification

#### Casp3 Antibody - middle region - Product Information

Application	WB
Primary Accession	<a href="#">P70677</a>
Other Accession	<a href="#">NM_009810</a> , <a href="#">NP_033940</a>
Reactivity	Human, Rat, Pig, Goat, Sheep, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Rat, Pig, Goat, Sheep, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31kDa KDa

#### Casp3 Antibody - middle region - Additional Information

**Gene ID** 12367

**Alias Symbol** [A830040C14Rik](#), [AC-3](#), [Apopain](#), [CC3](#), [CPP32](#), [Caspase-3](#), [Lice](#), [Yama](#), [mldy](#)

#### Other Names

Caspase-3, CASP-3, 3.4.22.56, Apopain, Cysteine protease CPP32, CPP-32, LICE, Protein Yama, SREBP cleavage activity 1, SCA-1, Caspase-3 subunit p17, Caspase-3 subunit p12, Casp3, Cpp32

#### Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

#### Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Casp3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

#### Precautions

Casp3 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

#### Casp3 Antibody - middle region - Protein Information

**Name** Casp3

**Synonyms** Cpp32 {ECO:0000303|PubMed:8934524}

#### Function

Thiol protease that acts as a major effector caspase involved in the execution phase of apoptosis (PubMed:<a href="http://www.uniprot.org/citations/16469926" target="\_blank">16469926</a>, PubMed:<a href="http://www.uniprot.org/citations/8934524" target="\_blank">8934524</a>).

Following cleavage and activation by initiator caspases (CASP8, CASP9 and/or CASP10), mediates execution of apoptosis by catalyzing cleavage of many proteins (PubMed:<a href="http://www.uniprot.org/citations/16469926" target="\_blank">16469926</a>, PubMed:<a href="http://www.uniprot.org/citations/8934524" target="\_blank">8934524</a>). At the onset of apoptosis, it proteolytically cleaves poly(ADP-ribose) polymerase PARP1 at a '216-Asp-|-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9 (CASP6, CASP7 and CASP9, respectively). Cleaves and inactivates interleukin-18 (IL18) (By similarity). Triggers cell adhesion in sympathetic neurons through RET cleavage (By similarity). Cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes (By similarity). Cleaves and inhibits serine/threonine- protein kinase AKT1 in response to oxidative stress (PubMed:<a href="http://www.uniprot.org/citations/12124386" target="\_blank">12124386</a>). Acts as an inhibitor of type I interferon production during virus- induced apoptosis by mediating cleavage of antiviral proteins CGAS, IRF3 and MAVS, thereby preventing cytokine overproduction (PubMed:<a href="http://www.uniprot.org/citations/30878284" target="\_blank">30878284</a>). Also involved in pyroptosis by mediating cleavage and activation of gasdermin-E (GSDME) (By similarity). Cleaves XRCC4 and phospholipid scramblase proteins XKR4, XKR8 and XKR9, leading to promote phosphatidylserine exposure on apoptotic cell surface (PubMed:<a href="http://www.uniprot.org/citations/25231987" target="\_blank">25231987</a>, PubMed:<a href="http://www.uniprot.org/citations/33725486" target="\_blank">33725486</a>). Cleaves BIRC6 following inhibition of BIRC6-caspase binding by DIABLO/SMAC (By similarity).

#### **Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:P42574}.

#### **Tissue Location**

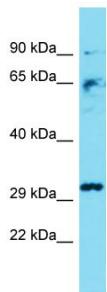
Highest expression in spleen, lung, liver, kidney and heart (PubMed:9038361). Lower expression in brain, skeletal muscle and testis (PubMed:9038361).

#### **Casp3 Antibody - middle region - 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](#)

#### **Casp3 Antibody - middle region - Images**



Host: Rabbit

Target Name: Casp3

Sample Tissue: Mouse Liver lysates

Antibody Dilution: 1.0µg/ml

#### Casp3 Antibody - middle region - References

Juan T.S.-C.,et al.Oncogene 13:749-755(1996).

Mukasa T.,et al.Biochem. Biophys. Res. Commun. 231:770-774(1997).

van de Craen M.,et al.FEBS Lett. 403:61-69(1997).

Fernandes-Alnemri T.,et al.Submitted (MAY-1997) to the EMBL/GenBank/DDBJ databases.

Denis F.,et al.Submitted (JUL-1996) to the EMBL/GenBank/DDBJ databases.