

# Casp3 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14598

## 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, Dog, Guinea Pig, Horse, Bovine, Sheep
Predicted	Human, Rat, Pig, Goat, Dog, Guinea Pig, Horse, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31475

## Additional Information

Gene ID	12367
Alias Symbol Other Names	A830040C14Rik, AC-3, Apopain, CC3, CPP32, Caspase-3, Lice, Yama, mldy 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.

## 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="#">16469926</a> , PubMed: <a href="#">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="#">16469926</a> , PubMed: <a href="#">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 DSG2 in response to apoptosis resulting in a loss of full length DSG2 at desmosome cell junctions and subsequent loss of cell-cell adhesion (By similarity). Also cleaves JUP in response to apoptosis (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:[12124386](#)). 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:[30878284](#)). 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:[25231987](#), PubMed:[33725486](#)). Cleaves BIRC6 following inhibition of BIRC6-caspase binding by DIABLO/SMAC (By similarity).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P42574}.

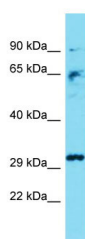
#### Tissue Location

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

## 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.

## Images



Host: Rabbit  
 Target Name: Casp3  
 Sample Tissue: Mouse Liver lysates  
 Antibody Dilution: 1.0µg/ml

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