

Caspase-7 Antibody

Catalog # ASC10300

Specification

Caspase-7 Antibody - Product Information

Application	WB, IHC
Primary Accession	P55210
Other Accession	P55210 , 1730092
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	Casp-7 antibody can be used for the detection of Caspase-7 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL.

Caspase-7 Antibody - Additional Information

Gene ID **840**
Other Names
Caspase-7 Antibody: MCH3, CMH-1, LICE2, CASP-7, ICE-LAP3, MCH3, Caspase-7, Apoptotic protease Mch-3, caspase 7, apoptosis-related cysteine peptidase

Target/Specificity

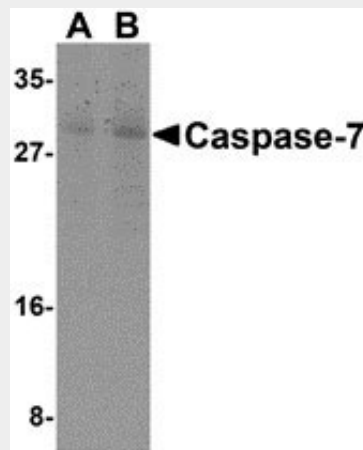
CASP7; Depending on cell lines or tissues used, other cleavage products may be observed.

Reconstitution & Storage

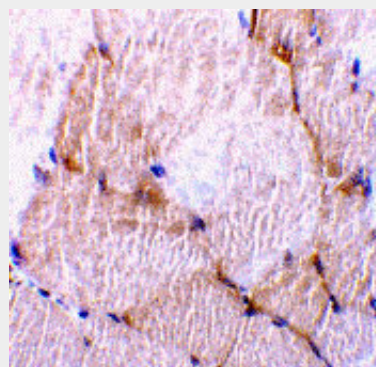
Caspase-7 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

Caspase-7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of Caspase-7 in mouse skeletal muscle cell lysate with Caspase-7 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of caspase-7 in rat skeletal muscle tissue with caspase-7 antibody at 10 µg/mL.

Caspase-7 Antibody - Background

Caspase-7 Antibody: Caspases are a family of cysteine proteases that can be divided into the apoptotic and inflammatory caspase subfamilies. Unlike the apoptotic caspases, members of the inflammatory subfamily are generally not involved in cell death but are associated with the immune response to microbial pathogens. The apoptotic subfamily can be further divided into initiator caspases, which are activated in response to death

Caspase-7 Antibody - Protein Information**Name** CASP7**Synonyms** MCH3**Function**

Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-|-Gly-217' bond. Overexpression promotes programmed cell death.

Cellular Location

Cytoplasm.

Tissue Location

Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain

Caspase-7 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](#)

signals, and executioner caspases, which are activated by the initiator caspases and are responsible for cleavage of cellular substrates that ultimately lead to cell death. Caspase-7 is an executioner caspase that was identified based on its homology with caspases 1 and 3, as well as the C. elegans cell death protein CED-3. Alternative splicing of Caspase-7 mRNA results in the production of 3 distinct isoforms. Caspase-7 activity can be directly inhibited by XIAP expression.

Caspase-7 Antibody - References

Martinon F and Tschopp J. Inflammatory caspases: linking an intracellular innate immune system to autoinflammatory diseases. *Cell* 2004; 117:561-74.

Zhivotovsky B and Orrenius S. Caspase-2 function in response to DNA damage. *Biochim. Biophys. Res. Comm.* 2005; 331:859-67.

Wolf BB and Green DR. Suicidal tendencies: apoptotic cell death by caspase family proteinases. *J. Biol. Chem.* 1999; 274:20049-52.

Juan TSC, McNiece IK, Argento JM, et al. Identification and mapping of Casp7, a cysteine protease resembling CPP32b, Interleukin-1b converting enzyme, and CED-3. *Genomics* 1997; 40:86-93.