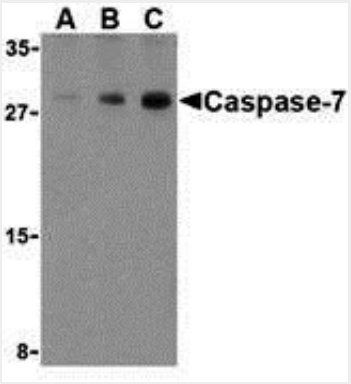
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

Caspase-7 Antibody
Catalog # ASC10299

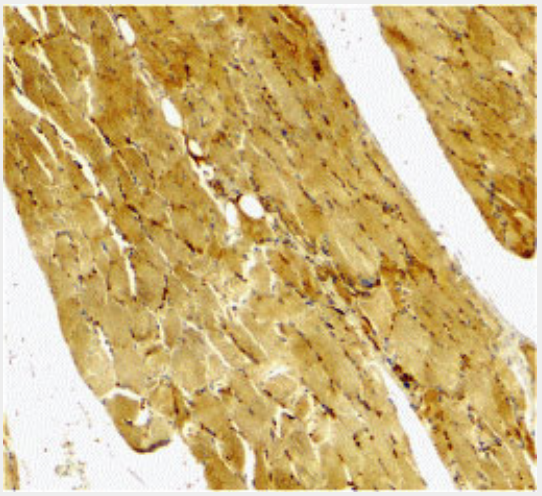
Specification

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 to 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2 µg/mL.**



Western blot analysis of Caspase-7 in human skeletal muscle cell lysate with Caspase-7 antibody at (A) 0.5, (B) 1, and (C) 2 µg/mL.



Immunohistochemical staining of human skeletal muscle using Caspase-7 antibody at 2 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℃ for three months and -20℃, 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.

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

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 Cytomety
- Cell Culture

can be further divided into initiator caspases, which are activated in response to death 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.