

Caspase-12 Antibody
Catalog # ASC10118**Specification**

Caspase-12 Antibody - Product Information

Application	WB, IHC
Primary Accession	O08736
Other Accession	CAA73532 , 2094806
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 46 kDa

Application Notes	Observed: 52 kDa KDa Caspase-12 antibody can be used for detection of caspase-12 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL.
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Caspase-12 Antibody - Additional Information

Gene ID	12364
Other Names	
Caspase-12 Antibody: Caspase-12, CASP-12, caspase 12	

Target/Specificity
Casp12;**Reconstitution & Storage**

Caspase-12 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-12 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Caspase-12 Antibody - Protein Information**Name** Casp12**Function**

Involved in the activation cascade of caspases responsible for apoptosis execution.

Tissue Location

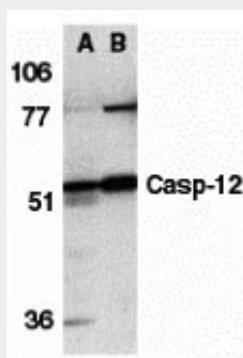
Mainly expressed in skeletal muscle and lung.

Caspase-12 Antibody - Protocols

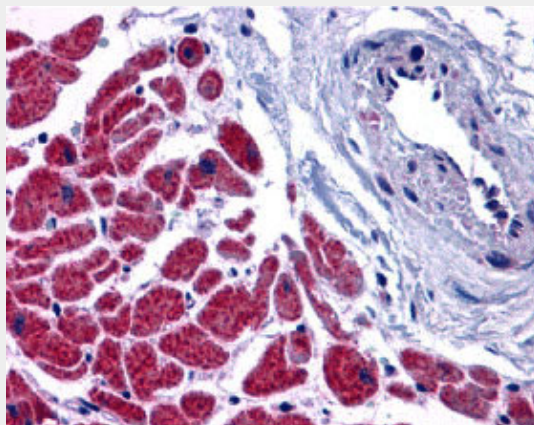
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Caspase-12 Antibody - Images



Western blot analysis of caspase-12 in (A) human and (B) mouse spleen tissue lysates with caspase-12 antibody at 1 μ g/mL.



Immunohistochemistry of caspase-12 in human heart tissue with caspase-12 antibody at 10 μ g/mL.

Caspase-12 Antibody - Background

Caspase-12 Antibody: Three distinct signaling pathways lead to programmed cell death (apoptosis). The death receptor and mitochondrion pathways are the mains, in which the key apoptotic proteases caspase-8 and caspase-9, respectively, are involved. The endoplasmic reticulum (ER) stress is the third apoptotic pathway and caspase-12 is involved. Caspase-12 is localized to the ER but not to cytoplasm or mitochondrion. Caspase-12 is activated by ER stress, including disruption of ER calcium homeostasis, and mediates ER stress-induced apoptosis. Caspase-12 is

co-localized to the ER with several proteins that are involved in Alzheimer's disease including gamma-secretase presenilin and beta-amyloid precursor protein (APP). Caspase-12 mediates cytotoxicity induced by amyloid-beta. Caspase-12 is ubiquitously expressed in mouse tissues.

Caspase-12 Antibody - References

Nakagawa T, Zhu H, Morishima N, et al. Caspase-12 mediates endoplasmic-reticulum-specific apoptosis and cytotoxicity by amyloid- β . *Nature* 2000; 403:98-103.

Mehmet H. Caspases find a new place to hide. *Nature* 2000; 403:29-30

Van de Craen M, Vandenabeele P, Declercq W, et al. Characterization of seven murine caspase family members. *FEBS Lett* 1997; 403:61-9