

Caspase-12 Antibody

Catalog # ASC10119

Specification

Caspase-12 Antibody - Product Information

Application **WB, IHC, IF**
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: 55 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 2 µg/mL. For immunofluorescence start at 10 µg/mL.

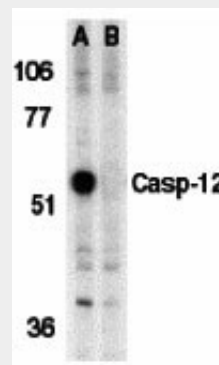
Caspase-12 Antibody - Additional Information

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

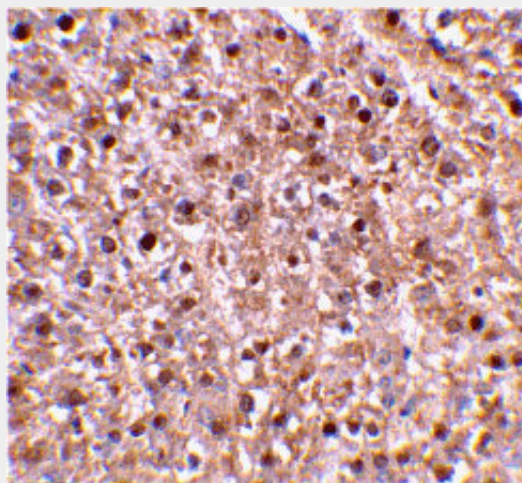
Target/Specificity
Casp12;

Reconstitution & Storage

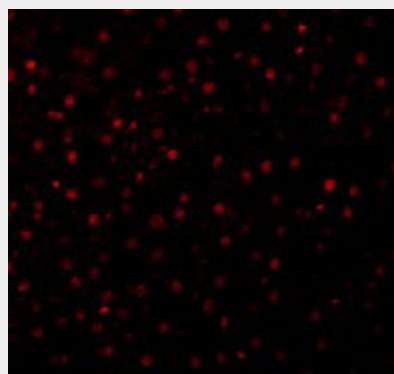
Caspase-12 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



Western blot analysis of caspase-12 in mouse brain tissue lysate in the absence (A) or presence (B) of blocking peptide with caspase-12 antibody (IN) at 1 µg/mL.



Immunohistochemical staining of mouse liver tissue using caspase-12 antibody at 2 µg/mL.



Precautions

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

Immunofluorescence of Caspase-12 in Mouse Liver cells with Caspase-12 antibody at 10 µg/mL.

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 - 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 Antibody - References

Nakagawa T, Zhu Human, Mouse orishima 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.