

Caspase-12 Antibody (Small)
Catalog # ASC10211**Specification**

Caspase-12 Antibody (Small) - 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 (uncleaved) |
| Application Notes | Observed: 38 kDa KDa Caspase-12 (small) antibody can be used for the detection of both the propeptide and cleaved forms of caspase-12 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. |

Caspase-12 Antibody (Small) - Additional Information

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

Target/Specificity
Casp12;

Reconstitution & Storage

Caspase-12 antibody (Small) can be stored at -20°C, stable for 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 (Small) is for research use only and not for use in diagnostic or therapeutic procedures.

Caspase-12 Antibody (Small) - Protein Information

Name Casp12

Function

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

Tissue Location

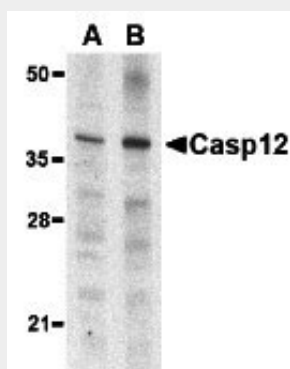
Mainly expressed in skeletal muscle and lung.

Caspase-12 Antibody (Small) - Protocols

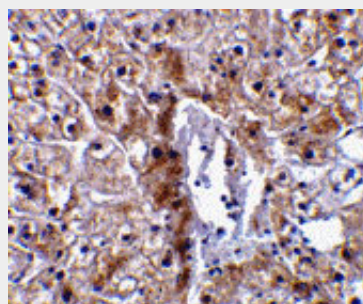
Provided below are standard protocols that you may find useful for product applications.

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

Caspase-12 Antibody (Small) - Images



Western blot analysis of caspase-12 in mouse (lane A) and rat (lane B) liver lysate with caspase-12 antibody (small) at 1 μ g/mL.



Immunohistochemical staining of human liver tissue using caspase-12 antibody (small) at 10 μ g/mL.

Caspase-12 Antibody (Small) - Background

Caspase-12 Antibody: (Small) Three distinct signaling pathways lead to programmed cell death (apoptosis). The death receptor and mitochondrion pathways are the main, 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 (Small) - References

Nakagawa T, Zhu Human, Mouseorishima N, el 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.