

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)**

Observed: 38 kDa KDa

Application Notes **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.**

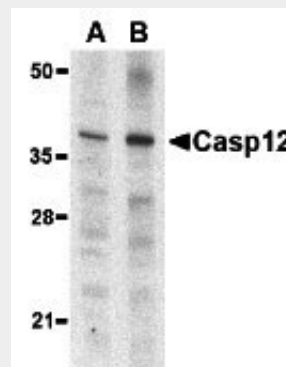
Caspase-12 Antibody (Small) - Additional Information

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

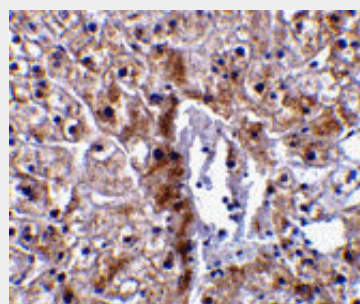
Target/Specificity
Casp12;

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



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



Immunohistochemical staining of human liver tissue using caspase-12 antibody (small) at 10 µg/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

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.

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, 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.

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](#)