

Caspase-12 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10222**Specification**

Caspase-12 Antibody - Product Information

Application	WB
Primary Accession	O08736
Other Accession	NM_009808
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47854

Caspase-12 Antibody - Additional Information**Gene ID** 12364**Application & Usage**

Western blotting (0.5-4 µg/ml). It detects procaspase-12 (55 kDa) and cleavage caspase-12 (36 kDa) on SDS-PAGE immunoblots. However, the optimal conditions should be determined individually.

Other Names

CASP12 , CASP12P1

Target/Specificity

Caspase -12

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) affinity purified rabbit anti-caspase-12 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

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.

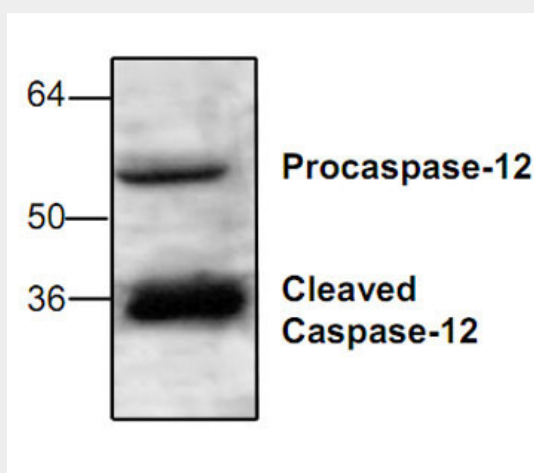
Tissue Location

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 with rat kidney tissue lysate.

Caspase-12 Antibody - Background

Three distinct signaling pathways lead to programmed cell death (apoptosis). The death receptor and mitochondrion pathways are the main two pathways, 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 located to the ER, but not to the

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