

Datasheet for ABIN6990234

anti-Caspase 12 antibody (AA 170-220)[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Caspase 12 (CASP12)
Binding Specificity:	AA 170-220
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 12 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Caspase-12 antibody was raised against a synthetic peptide corresponding to 16 amino acids within the large cleavage product of murine caspase-12. The immunogen is located within amino acids 170 - 220 of Caspase-12.
Isotype:	IgG
Specificity:	Caspase-12 (large) antibody is predicted to have no cross reactivity to other members in the caspase family.
Purification:	Caspase-12 (Large) Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Caspase 12 (CASP12)
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Target Details

Alternative Name:	Caspase-12 (CASP12 Products)
Background:	Caspase-12 Antibody: (Large)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 capase-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.
Molecular Weight:	Predicted: 46 kDa Observed: 46 kDa
Gene ID:	12364
UniProt:	O08736
Pathways:	Apoptosis , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Unfolded Protein Response

Application Details

Application Notes:	Caspase-12 (large) antibody can be used for the detection of both the propeptide and cleaved forms of caspase-12 by Western blot at 0.25 to 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2 µg/mL. For immunofluorescence start at 10 µg/mL. Antibody validated: Western Blot in human, mouse, and rat samples, Immunohistochemistry in human, mouse, and rat samples and Immunofluorescence in human, mouse, and rat samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL

Handling

Buffer:	Caspase-12 Antibody is supplied in PBS containing 0.02 % sodium azide. (Large)
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Caspase-12 (Large) antibody 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.