Datasheet for ABIN499551

anti-Caspase 12 antibody (large)

2 Images

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Overview

Quantity:	0.1 mg
Target:	Caspase 12 (CASP12)
Binding Specificity:	large
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 12 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Mouse Caspase-12 (Large) Peptide
Isotype:	IgG
Specificity:	Caspase-12 antibody was raised against a synthetic peptide corresponding to amino acids within the large cleavage product of murine caspase-12.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	Caspase 12 (CASP12)
Alternative Name:	Caspase-12 (CASP12 Products)

Target Details

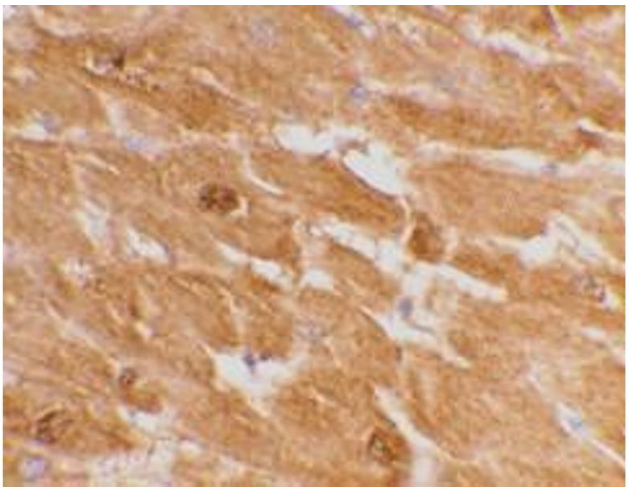
Background:	Three distinct signaling pathways lead to programmed cell death (apoptosis). The death receptor and mitochondrion pathways are the main, in which the key apoptotic proteases capase-8 and caspase-9, respectively, are involved. The endoplasmic reticulum (ER) stress is the third apoptotic pathway and caspase-12 is involved (1,2). 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 beta-secretase presenilin and beta-amyloid precursor protein (APP). Caspase-12 mediates cytotoxicity induced by amyloid-beta. Caspase-12 is ubiquitously expressed in mouse tissues (1).Synonyms: CASP-12, CASP12, Inactive caspase-12
Gene ID:	100044205
UniProt:	O08736
Pathways:	Apoptosis, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Unfolded Protein Response

Application Details

Application Notes:	ELISA. Western Blot: Caspase-12 (large) antibody can be used for the detection of both thepropeptide and cleaved forms of caspase-12 at 0.5 to 2 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

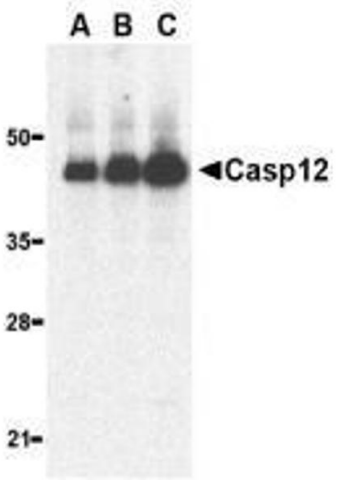
Handling

Buffer:	PBS containing 0.02 % sodium azide.
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:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical staining of human heart tissue using AP30192PU-N caspase-12 antibody (large) at 2 µg/ml.



Western Blotting

Image 2. Western blot analysis of caspase-12 in human heart lysate with AP30192PU-N caspase-12 antibody (large) at 0.5 (lane A), 1 (lane B), and 2 µg/ml (lane C), respectively.