Caspase-12 Antibody(Large)

Catalog No: #24208

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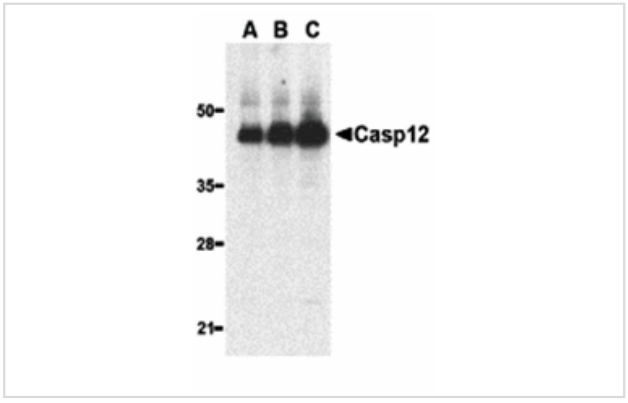
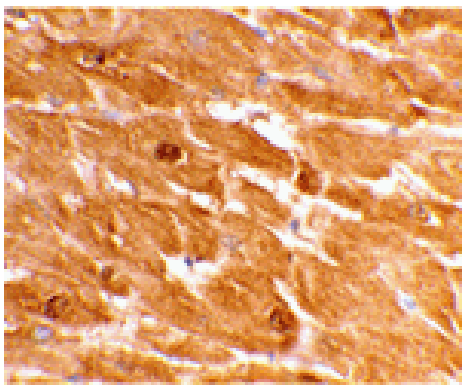
Description

Product Name	Caspase-12 Antibody(Large)
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a synthetic peptide corresponding to amino acids within the large cleavage product of murine caspase-12.
Target Name	Caspase-12 (Large)
Other Names	Caspase-12 (large), Casp-12 (lrg)
Accession No.	Swiss-Prot:O08736Gene ID:12364
Uniprot	O08736
GeneID	12364;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Caspase-12 antibody (Large) 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.

Images



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



Immunohistochemical staining of human heart tissue using caspase-12 antibody (large) at 2 ug/mL.

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. 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.

Note: This product is for in vitro research use only