

## Product datasheet for **TA306053**

### Casp12 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2 ug/mL, IF: 10 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Caspase-12 antibody was raised against a peptide corresponding to amino acids 100 to 116 of murine caspase-12.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	caspase 12
Database Link:	<a href="#">CAA73532</a> <a href="#">Entrez Gene 12364 Mouse</a> <a href="#">O08736</a>



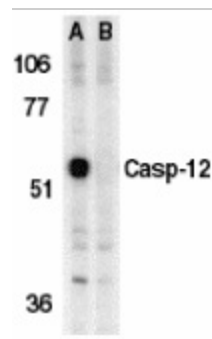
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**Background:**

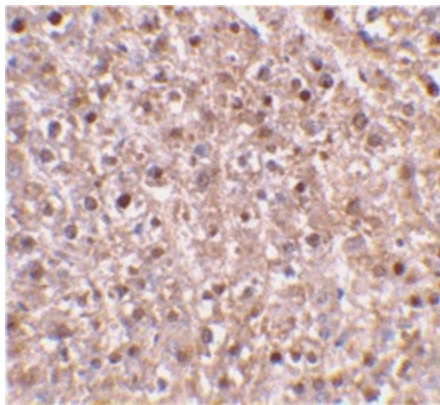
Three distinct signaling pathways lead to programmed cell death (apoptosis). The death receptor and mitochondrion pathways are the mains, in which the key apoptotic proteases caspase-8 and caspase-9, respectively, are involved. The endoplasmic reticulum (ER) stress is the third apoptotic pathway and caspase-12 is involved (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  $\gamma$ -secretase presenilin and  $\gamma$ -amyloid precursor protein (APP). Caspase-12 mediates cytotoxicity induced by amyloid-beta. Caspase-12 is ubiquitously expressed in mouse tissues (1).

**Synonyms:**

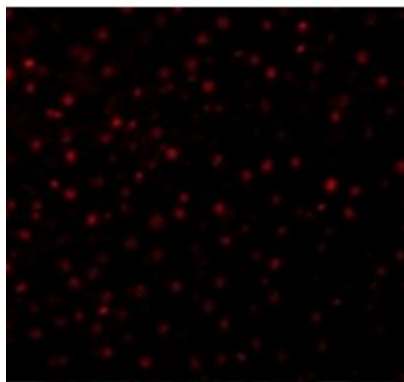
CASP-12; CASP12P1

**Product images:**

Western blot analysis of caspase-12 in mouse brain tissue lysate in the absence (A) or presence (B) of blocking peptide with caspase-12 antibody (IN) at 1 ug/ml.



Immunohistochemical staining of mouse liver tissue using Caspase-12 antibody at 2 ug/ml.



Immunofluorescence of Caspase-12 in Mouse Liver cells with Caspase-12 antibody at 10 ug/mL.