

AP00089PU-N**Polyclonal Antibody to Caspase-12 - Purified****Alternate names:**

CASP-12, CASP12, Inactive caspase-12

Quantity:

0.1 mg

Concentration:

0.2 mg/ml

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 beta-Amyloid precursor protein (APP). Caspase-12 mediates cytotoxicity induced by amyloid-beta. Caspase-12 is ubiquitously expressed in mouse tissues.

Uniprot ID:[O08736](#)**NCBI:**[NP_033938.3](#)**GeneID:**[12364](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide corresponding to residues surrounding amino acid 310 of Mouse Caspase-12

Format:**State:** Liquid purified Ig fraction.**Purification:** Affinity Chromatography.**Buffer System:** PBS, pH 7.2, containing 30% Glycerol, 0.5% BSA and 0.01% Thimerosal.**Applications:**

Western Blot: 0.5-4.0 µg/ml.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The purified antibody detects Procaspace-12 (55 kDa) and cleavage Caspase-12 (36 kDa) on SDS-PAGE Immunoblots.

Species: Human Mouse and Rat.

Other species not tested.

Storage:

Store the antibody undiluted at -20°C or for long term storage (in aliquots) at -20°C to -70°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:

Western blot analysis of Caspase-12 with rat kidney tissue lysate.

