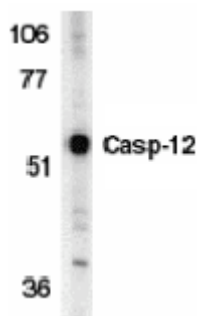


Anti-Caspase 12 Purified

Catalog Number: 14-6207

Also known as: Caspase12

RUO: For Research Use Only. Not for use in diagnostic procedures.



Immunoblot analysis of reduced mouse brain lysate using Anti-Caspase 12 Purified (1 µg/ml) and detected using Anti-Rabbit IgG-HRP (left). Immunohistochemical staining using antigen retrieval of formalin-fixed, paraffin-embedded mouse liver tissue using Anti-Caspase 12 Purified at 2 µg/ml and detected using Anti-Rabbit IgG-HRP (right).

Product Information



Contents: Anti-Caspase 12 Purified

Catalog Number: 14-6207

Clone: Polyclonal

Host/Isotype: Rabbit IgG



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Caution, contains Azide

Description

The polyclonal antibody reacts with human, mouse, and rat caspase-12. The antibody was raised against residues 100-116 of mouse Caspase-12 and reacts with human, mouse and rat Caspase-12. Caspase-12 is ubiquitously expressed in tissues and localized to the endoplasmic reticulum (ER) and activated by ER stress resulting in apoptosis. Similar to other members of the Caspase family, Caspase-12 requires cleavage of the prodomain to activate its proapoptotic form. ER stress, including disruption of ER calcium homeostasis and accumulation of excess proteins in ER, but not by membrane- or mitochondrial-targeted apoptotic signals, is responsible for Caspase-12 activation.

Applications Reported

This polyclonal antibody has been reported for use in immunoblotting (WB).

Applications Tested

This polyclonal antibody has been reported for use in immunoblotting (1:500-1:1000 dilution) of Caspase 12 from mouse brain lysate as a positive control. An approximately 53 kDa band can be detected. It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

References

- Rao, R. V., E. Hermel, et al. 2001. Coupling endoplasmic reticulum stress to the cell death program. Mechanism of caspase activation. *J Biol Chem* 276: 33869-74.
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- Bitko, V. and S. Barik 2001. An endoplasmic reticulum-specific stress-activated caspase (caspase-12) is implicated in the apoptosis of A549 epithelial cells by respiratory syncytial virus. *J Cell Biochem* 80: 441-54.
- Nakagawa, T. and J. Yuan 2000. Cross-talk between two cysteine protease families. Activation of caspase-12 by calpain in apoptosis. *J Cell Biol* 150: 887-94.

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Nakagawa, T., H. Zhu, et al. 2000. Caspase-12 mediates endoplasmic-reticulum-specific apoptosis and cytotoxicity by amyloid-beta. Nature 403: 98-103.

Related Products

18-8816 Rabbit TrueBlot®: Anti-Rabbit IgG HRP

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