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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Caspase-12 (IN). Rabbit Polyclonal Antibody

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 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 γ-secretase presenilin and β-amyloid precursor protein (APP). Caspase-12 mediates cytotoxicity induced by amyloid-β. Caspase-12 is ubiquitously expressed in mouse tissues (1).

Ordering Information

Catalog Number
X1114P

Size
100 μg

Form
Unconjugated

Host/Clone
Rabbit

Formulation
Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

Concentration
See vial for concentration

Isotype
IgG

Applications
Western Blot

Species Reactivity
Human, Mouse, Rat

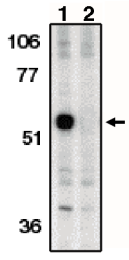
Accession Number

Human	Q6UXS9

Immunogen

Synthetic peptide corresponding to amino acids 100 to 116 of the murine caspase-12

Western blot analysis using anti-Capase-12 (IN) antibody at1 μg/ml on mouse brain tissue in the absense (1) and presense (2) of blocking peptide.



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Positive Control/Tissue Expression

Murine spleen tissue lysate

Comments

Detects caspase-12 by Western blot at 0.5 to 1.0 μg/ml. Optimal concentration should be evaluated by serial dilutions.

Purification

Antigen Immunoaffiinity Purification

Ship Conditions

Ship at ambient temperature, freeze upon arrival

Storage Customer

Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

Stability

Products are stable for one year from purchase when stored properly

References

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

2. Mehmet, H., Caspases find a new place to hide. Nature 2000, 403, 29-30

3. Van de Craen M, et al., Characterization of seven murine caspase family members. FEBS Lett 1997, 403, 61-9

Product Specific References

1. Hetz, C., et al, 'Caspase-12 and endoplasmic reticulum stress mediate neurotoxicity of pathological prion protein' EMBO Journal 2003, 22, , 5435-54
2. Hetz, C., et al, 'The Disulfide Isomerase Grp58 Is a Protective Factor against Prion Neurotoxicity' Journal of Neuroscience 2005, 25, , 2793-2802
3. Rao, Rammohan V., et al, 'Coupling Endoplasmic Reticulum Stress to the Cell Death Program' The Journal of Biological Chemistry 2002, 277, 24, 21836-21842

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