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Caspase-12 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 42, 55	Source/Isotype: Rabbit	UniProt ID: #O08736	Entrez-Gene Id: 12364
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Caspase-12 Antibody detects endogenous levels of full-length caspase-12 protein (55 kDa) and its cleaved product (42 kDa). The antibody does not cross-react with other caspases.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 158 of mouse caspase-12. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Caspase-12 is located in the endoplasmic reticulum (ER). It is responsible for ER stress-induced apoptosis, such as high calcium concentration, low oxygen, and low glucose levels (1,2). One of the mechanisms for caspase-12 activation is related to calpain-mediated cleavage at T132 and K158, both of which are located at the amino-terminal region of caspase-12 (2,3). Caspase-12 also has a putative caspase cleavage site located at the carboxy-terminal region of the protein (3). In cortical neurons, caspase-12 is involved at least partially in the amyloid-beta neurotoxicity process (1).	
Background References	<ol style="list-style-type: none"> 1. Nakagawa, T. et al. (2000) <i>Nature</i> 403, 98-103. 2. Nakagawa, T. and Yuan, J. (2000) <i>J. Cell Biol.</i> 150, 887-894. 3. Van de Craen, M. et al. (1997) <i>FEBS Lett.</i> 403, 61-69. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting	
Cross-Reactivity Key	M: Mouse	
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