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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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## Caspase-9 Antibody (Rat Specific)

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

<b>Applications:</b> W	<b>Reactivity:</b> R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17, 38, 40, 51	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q9JHK1	<b>Entrez-Gene Id:</b> 58918
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	Caspase-9 Antibody (Rat Specific) detects endogenous levels of full length (51 kDa) and large fragments of caspase-9. The antibody does not recognize any other cleaved caspases.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding aspartic acid 353 of rat caspase-9. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Caspase-9 (ICE-LAP6, Mch6) is an important member of the cysteine aspartic acid protease (caspase) family (1,2). Upon apoptotic stimulation, cytochrome c released from mitochondria associates with the 47 kDa procaspase-9/Apaf-1. Apaf-1 mediated activation of caspase-9 involves intrinsic proteolytic processing, resulting in cleavage at Asp315 and producing a p35 subunit. Another cleavage occurs at Asp330, producing a p37 subunit that can serve to amplify the apoptotic response (3-6). Cleaved caspase-9 further processes other caspase members, including caspase-3 and caspase-7, to initiate a caspase cascade, which leads to apoptosis (7-10).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Duan, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 16720-16724.</li> <li>Srinivasula, S. M. et al. (1996) <i>J. Biol. Chem.</i> 271, 27099-27106.</li> <li>Liu, X. et al. (1996) <i>Cell</i> 86, 147-157.</li> <li>Li, P. et al. (1997) <i>Cell</i> 91, 479-489.</li> <li>Zou, H. et al. (1999) <i>J. Biol. Chem.</i> 274, 11549-11556.</li> <li>Srinivasula, S.M. et al. (1998) <i>Mol Cell</i> 1, 949-57.</li> <li>Deveraux, Q. L. et al. (1998) <i>EMBO J.</i> 17, 2215-2223.</li> <li>Slee, E. A. et al. (1999) <i>J. Cell Biol.</i> 144, 281-292.</li> <li>Sun, X.M. et al. (1999) <i>J Biol Chem</i> 274, 5053-60.</li> <li>MacFarlane, M. et al. (1997) <i>J. Cell Biol.</i> 137, 469-479.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> 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.
<b>Applications Key</b>	<b>W:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>R:</b> Rat
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