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cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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#9508

Caspase-9 (C9) Mouse mAb

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

Applications: W	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 47/37/35 (H). 49/39/37 (M). 51/40/38 (R).	Source/Isotype: Mouse IgG1	UniProt ID: #P55211	Entrez-Gene Id: 842
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
	For a carrier free (BSA and azide free) version of this product see product #10068.	
Specificity/Sensitivity	Caspase-9 (C9) Antibody detects endogenous levels of the pro form of caspase-9 as well as cleaved fragments.	
Source / Purification	Monoclonal Antibody is produced by immunizing mice with a recombinant human caspase-9 protein.	
Background	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).	
Background References	<ol style="list-style-type: none"> 1. Duan, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 16720-16724. 2. Srinivasula, S. M. et al. (1996) <i>J. Biol. Chem.</i> 271, 27099-27106. 3. Liu, X. et al. (1996) <i>Cell</i> 86, 147-157. 4. Li, P. et al. (1997) <i>Cell</i> 91, 479-489. 5. Zou, H. et al. (1999) <i>J. Biol. Chem.</i> 274, 11549-11556. 6. Srinivasula, S.M. et al. (1998) <i>Mol Cell</i> 1, 949-57. 7. Deveraux, Q. L. et al. (1998) <i>EMBO J.</i> 17, 2215-2223. 8. Slee, E. A. et al. (1999) <i>J. Cell Biol.</i> 144, 281-292. 9. Sun, X.M. et al. (1999) <i>J Biol Chem</i> 274, 5053-60. 10. MacFarlane, M. et al. (1997) <i>J. Cell Biol.</i> 137, 469-479. 	
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	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey	
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