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## Caspase-9 (C9) Mouse mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Hm Mk	Endogenous	47/37/35 (H). 49/39/37 (M). 51/40/38 (R).	Mouse IgG1	#P55211	842

<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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	Caspase-9 (C9) Antibody detects endogenous levels of the pro form of caspase-9 as well as cleaved fragments.	
<b>Source / Purification</b>	Monoclonal Antibody is produced by immunizing mice with a recombinant human caspase-9 protein.	
<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>1. Duan, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 16720-16724.</li> <li>2. Srinivasula, S. M. et al. (1996) <i>J. Biol. Chem.</i> 271, 27099-27106.</li> <li>3. Liu, X. et al. (1996) <i>Cell</i> 86, 147-157.</li> <li>4. Li, P. et al. (1997) <i>Cell</i> 91, 479-489.</li> <li>5. Zou, H. et al. (1999) <i>J. Biol. Chem.</i> 274, 11549-11556.</li> <li>6. Srinivasula, S.M. et al. (1998) <i>Mol Cell</i> 1, 949-57.</li> <li>7. Deveraux, Q. L. et al. (1998) <i>EMBO J.</i> 17, 2215-2223.</li> <li>8. Slee, E. A. et al. (1999) <i>J. Cell Biol.</i> 144, 281-292.</li> <li>9. Sun, X.M. et al. (1999) <i>J Biol Chem</i> 274, 5053-60.</li> <li>10. 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>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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