

#9504 Store at -20C

Caspase-9 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	M	Endogenous	37, 39, 49	Rabbit	#Q8C3Q9	12371

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-9 Antibody detects endogenous levels of both full length mouse caspase-9 (49 kDa) and the large fragment of mouse caspase-9 resulting from cleavage at aspartic acid 353 (37 kDa) and/or aspartic acid 368 (39 kDa). The antibody does not cross-react other caspases.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the cleavage site of mouse caspase-9. Antibodies are purified by protein A and peptide affinity chromatography.	
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"> Duan, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 16720-16724. Srinivasula, S. M. et al. (1996) <i>J. Biol. Chem.</i> 271, 27099-27106. Liu, X. et al. (1996) <i>Cell</i> 86, 147-157. Li, P. et al. (1997) <i>Cell</i> 91, 479-489. Zou, H. et al. (1999) <i>J. Biol. Chem.</i> 274, 11549-11556. Srinivasula, S.M. et al. (1998) <i>Mol Cell</i> 1, 949-57. Deveraux, Q. L. et al. (1998) <i>EMBO J.</i> 17, 2215-2223. Slee, E. A. et al. (1999) <i>J. Cell Biol.</i> 144, 281-292. Sun, X.M. et al. (1999) <i>J Biol Chem</i> 274, 5053-60. 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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