



Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

#9494 Store at -20C

Caspase-7 (C7) Mouse mAb

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 20, 30, 35	Source/Isotype: Mouse IgG1	UniProt ID: #P55210	Entrez-Gene Id: 840
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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.	
Specificity/Sensitivity	Caspase-7 (C7) Mouse mAb detects endogenous levels of caspase-7 proform as well as the 30 and 20 kDa cleaved fragments. This antibody does not cross-react with other caspases.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant human caspase-7 protein.	
Background	Caspase-7 (CMH-1, Mch3, ICE-LAP3) has been identified as a major contributor to the execution of apoptosis (1-4). Caspase-7, like caspase-3, is an effector caspase that is responsible for cleaving downstream substrates such as (ADP-ribose) polymerase and PARP (1,3). During apoptosis, caspase-7 is activated through proteolytic processing by upstream caspases at Asp23, Asp198, and Asp206 to produce the mature subunits (1,3). Similar to caspase-2 and -3, caspase-7 preferentially cleaves substrates following the recognition sequence DEVD (5).	
Background References	<ol style="list-style-type: none"> 1. Fernandes-Alnemri, T. et al. (1995) <i>Cancer Res</i> 55, 6045-52. 2. Duan, H. et al. (1996) <i>J Biol Chem</i> 271, 1621-5. 3. Lippke, J.A. et al. (1996) <i>J Biol Chem</i> 271, 1825-8. 4. Cohen, G.M. (1997) <i>Biochem J</i> 326 (Pt 1), 1-16. 5. Thornberry, N.A. et al. (1997) <i>J Biol Chem</i> 272, 17907-11. 	
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	
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