

#9492 Store at -20°C

Caspase-7 Antibody



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

Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 20, 35	Source: Rabbit	UniProt ID: #P55210	Entrez-Gene Id: 840
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Product Usage Information	Application Western Blotting Simple Western™	Dilution 1:1000 1:100 - 1:250
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-7 Antibody detects endogenous levels of both full length caspase-7 (35 kDa) and the large fragment of cleaved caspase-7 following cleavage at aspartic acid 198 (20 kDa). The antibody does not recognize other caspases.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the cleavage site of human caspase-7. Antibodies are purified by protein A and peptide affinity chromatography.	
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	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	WB: Western Blotting W-S: Simple Western™
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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