

#9762 Store at -20°C

Caspase-6 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, W-S	H M R	Endogenous	15, 35	Rabbit	#P55212	839

Product Usage Information	Application Western Blotting Simple Western™	Dilution 1:1000 1:50 - 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-6 Antibody recognizes endogenous levels of both full length caspase-6 (35 kDa) and the small subunit of caspase-6 resulting from cleavage at aspartic acid 193 (15 kDa). This 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 caspase-6. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Caspase-6 (Mch2) is one of the major executioner caspases functioning in cellular apoptotic processes (1,2). Upon apoptotic stimulation, initiator caspases such as caspase-9 are cleaved and activated (3). The activated upstream caspases further process downstream executioner caspases, such as caspase-3 and caspase-6, by cleaving them into large and small subunits, thereby initiating a caspase cascade leading to apoptosis (4,5). One of the major targets for caspase-6 is the membrane associated protein lamin A (6). The cleavage of this protein causes cell membrane malfunction, membrane blebbing, and eventual cell death.	
Background References	1. Cohen, G.M. (1997) <i>Biochem J</i> 326 (Pt 1), 1-16. 2. Faleiro, L. et al. (1997) <i>EMBO J</i> 16, 2271-81. 3. Li, P. et al. (1997) <i>Cell</i> 91, 479-89. 4. Slee, E.A. et al. (1999) <i>J Cell Biol</i> 144, 281-92. 5. MacFarlane, M. et al. (1997) <i>J Cell Biol</i> 137, 469-79. 6. Orth, K. et al. (1996) <i>J Biol Chem</i> 271, 16443-6.	

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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