

#9761 Store at -20°C

## Cleaved Caspase-6 (Asp162) Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	18	Rabbit	#P55212	839

<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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	Cleaved Caspase-6 (Asp162) Antibody detects endogenous levels of the large subunit of active caspase-6 resulting from cleavage at Asp179 in human or Asp162 in mouse and rat (18 kDa). This antibody does not recognize other cleaved caspases.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of p18, the large subunit of rat caspase-6. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	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.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Cohen, G.M. (1997) <i>Biochem J</i> 326 (Pt 1), 1-16.</li> <li>2. Faleiro, L. et al. (1997) <i>EMBO J</i> 16, 2271-81.</li> <li>3. Li, P. et al. (1997) <i>Cell</i> 91, 479-89.</li> <li>4. Slee, E.A. et al. (1999) <i>J Cell Biol</i> 144, 281-92.</li> <li>5. MacFarlane, M. et al. (1997) <i>J Cell Biol</i> 137, 469-79.</li> <li>6. Orth, K. et al. (1996) <i>J Biol Chem</i> 271, 16443-6.</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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