

**#9509** Store at **-20°C**

# Cleaved Caspase-9 (Asp353) Antibody (Mouse Specific)

100 µl  
 (10 western blots)



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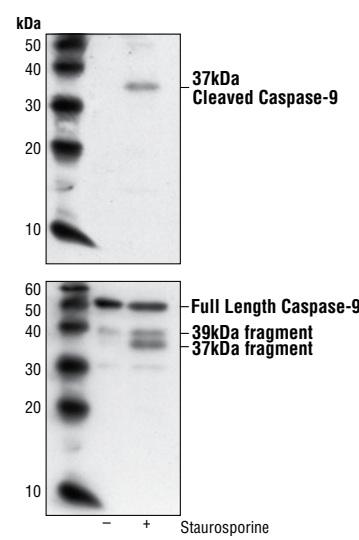
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IF-IC Endogenous	M	37 kDa	Rabbit**

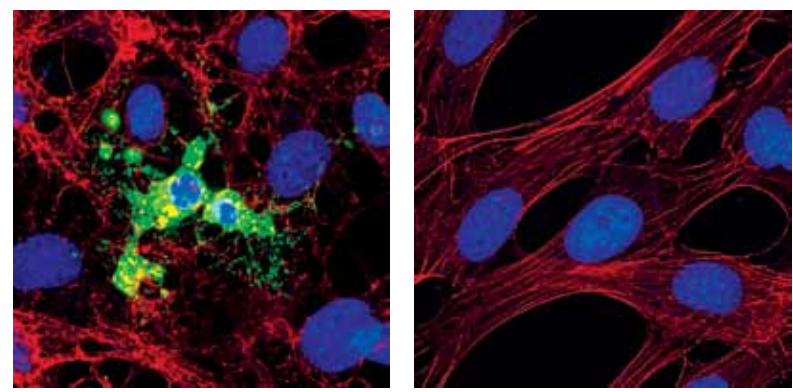
**Background:** Caspase-9 (ICE-LAP6, Mch6) is an important member of the cysteine aspartic acid protease (caspase) family (1,2). Upon apoptotic stimulation, cytochrome c released from mitochondria associates with the 47 kDa procaspase-9/Apaf 1. This complex processes procaspase-9 into a large active fragment (35 kDa or 17 kDa) and a small fragment (10 kDa) by self-cleavage at Asp315 (3-5). Cleaved caspase-9 further processes other caspase members, including caspase-3 and caspase-7, to initiate a caspase cascade, which leads to apoptosis (6-9). In addition to self-cleavage, procaspase-9 can also be cleaved *in vivo* by caspase-3 at Asp330. This process serves as positive feedback to amplify the apoptotic signal in the caspase activation pathway (3-5).

**Specificity/Sensitivity:** Cleaved Caspase-9 (Asp353) Antibody (Mouse Specific) detects endogenous levels of the 37kDa subunit of mouse caspase-9 only after after cleavage at aspartic acid 353. It does not cross-react with full length caspase-9 or with other caspases at endogenous levels.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp353 of mouse caspase-9. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from L929 cells, untreated or staurosporine-treated, using Cleaved Caspase-9 (Asp353) Antibody (upper) or Caspase-9 Antibody #9504 (lower).



Confocal immunofluorescent analysis of NIH/3T3 cells, staurosporine-treated (left) or untreated (right), using Cleaved Caspase-9 (Asp353) Antibody (Mouse Specific) (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

**Entrez-Gene ID** #12371  
**Swiss-Prot Acc.** #Q9R0T0

**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.

**\*Species cross-reactivity is determined by western blot.**  
**\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**  
 Western blotting 1:1000  
 Immunofluorescence (IF-IC) 1:50

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**Background References:**

- (1) Duan, H. et al. (1996) *J. Biol. Chem.* 271, 16720-16724.
- (2) Srinivasula, S.M. et al. (1996) *J. Biol. Chem.* 271, 27099-27106.
- (3) Liu, X. et al. (1996) *Cell* 86, 147-157.
- (4) Li, P. et al. (1997) *Cell* 91, 479-489.
- (5) Zou, H. et al. (1999) *J. Biol. Chem.* 274, 11549-11556.
- (6) Deveraux, Q.L. et al. (1998) *EMBO J.* 17, 2215-2223.
- (7) Slee, E.A. et al. (1999) *J. Cell Biol.* 144, 281-292.
- (8) Sun, X. et al. (1999) *J. Biol. Chem.* 274, 5053-5060.
- (9) MacFarlane, M. et al. (1997) *J. Cell Biol.* 137, 469-479.

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**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.