



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

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#9502

Caspase-9 Antibody

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

Applications: W, W-S	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35, 37, 47	Source/Isotype: Rabbit	UniProt ID: #P55211	Entrez-Gene Id: 842
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Product Usage Information

Application

Western Blotting
Simple Western™

Dilution

1:1000
1:10 - 1:50

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-9 Antibody detects endogenous levels of full length caspase-9 (47 kDa) and large fragments of caspase-9. The antibody does not recognize other caspases.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding aspartic acid 315 of human caspase-9. Antibodies are purified by protein A and peptide affinity chromatography.

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. Apaf-1 mediated activation of caspase-9 involves intrinsic proteolytic processing, resulting in cleavage at Asp315 and producing a p35 subunit. Another cleavage occurs at Asp330, producing a p37 subunit that can serve to amplify the apoptotic response (3-6). Cleaved caspase-9 further processes other caspase members, including caspase-3 and caspase-7, to initiate a caspase cascade, which leads to apoptosis (7-10).

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. Srinivasula, S.M. et al. (1998) *Mol Cell* 1, 949-57.
7. Deveraux, Q. L. et al. (1998) *EMBO J.* 17, 2215-2223.
8. Slee, E. A. et al. (1999) *J. Cell Biol.* 144, 281-292.
9. Sun, X.M. et al. (1999) *J Biol Chem* 274, 5053-60.
10. MacFarlane, M. et al. (1997) *J. Cell Biol.* 137, 469-479.

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 **W-S:** Simple Western™

Cross-Reactivity Key

H: Human

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