



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

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#9501

Cleaved Caspase-9 (Asp330) Antibody (Human Specific)

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

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

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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

Cleaved Caspase-9 (Asp330) Antibody (Human Specific) detects endogenous levels of the large fragment (37 kDa with prodomain/17 kDa) of caspase-9 following cleavage at aspartic acid 330. The antibody does not recognize the uncleaved procaspase-9.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino terminus residues surrounding to Asp330 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

- Duan, H. et al. (1996) *J. Biol. Chem.* 271, 16720-16724.
- Srinivasula, S. M. et al. (1996) *J. Biol. Chem.* 271, 27099-27106.
- Liu, X. et al. (1996) *Cell* 86, 147-157.
- Li, P. et al. (1997) *Cell* 91, 479-489.
- Zou, H. et al. (1999) *J. Biol. Chem.* 274, 11549-11556.
- Srinivasula, S.M. et al. (1998) *Mol Cell* 1, 949-57.
- Deveraux, Q. L. et al. (1998) *EMBO J.* 17, 2215-2223.
- Slee, E. A. et al. (1999) *J. Cell Biol.* 144, 281-292.
- Sun, X.M. et al. (1999) *J Biol Chem* 274, 5053-60.
- 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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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