

#7237 Store at -20°C

Cleaved Caspase-9 (Asp330) (D2D4) Rabbit mAb



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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W, IP Endogenous	Species Cross-Reactivity* H, (Mk)	Molecular Wt. 37 kDa	Isotype Rabbit IgG**
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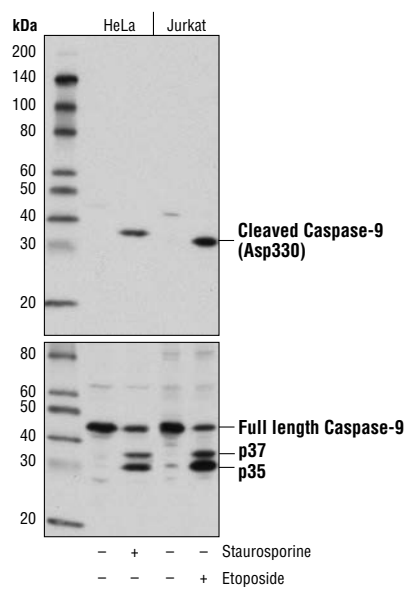
Background: Caspase-9 (ICE-LAP6, Mch6) is an important member of the cysteine aspartic acid protease (caspase) family (1,2). Upon apoptotic stimulation, cytochrome c released from mitochondria associates with the 47 kDa procaspase-9/Apaf 1. Apaf-1 mediated activation of caspase-9 involves intrinsic proteolytic 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).

Specificity/Sensitivity: Cleaved Caspase-9 (Asp330) (D2D4) Rabbit mAb recognizes endogenous levels of caspase-9 protein only when cleaved at Asp330. Full-length caspase-9 may be weakly detected with some cell lines.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp330 of human caspase-9 protein.

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. et al. (1999) *J. Biol. Chem.* 274, 5053-5060.
- MacFarlane, M. et al. (1997) *J. Cell Biol.* 137, 469-479.



Western blot analysis of extracts from HeLa and Jurkat cells, untreated or treated with Staurosporine #9953 (1 μM, 3 hr) or etoposide (25 μM, overnight), using Cleaved Caspase-9 (Asp330) (D2D4) Rabbit mAb (upper) or total Caspase-9 Antibody (Human Specific) #9502 (lower).

Entrez-Gene ID #842
UniProt ID #P55211

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. 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
Immunoprecipitation	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 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.

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