

Caspase-7 (C7) Mouse mAb (Human Specific)

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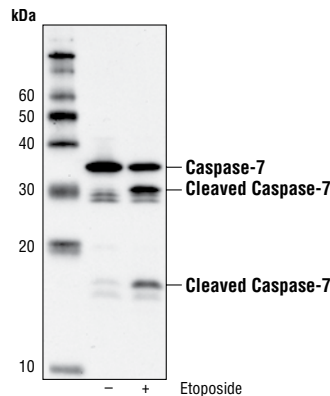
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Applications W Endogenous	Species Cross-Reactivity* H	Molecular Wt. 20, 30, 35 kDa	Isotype Mouse IgG1**
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Background: Caspase-7 (CMH-1, Mch3, ICE-LAP3) has been identified as a major contributor to the execution of apoptosis (2-4). Caspase-7 is an effector caspase (along with caspase-2 and -3), meaning that it cleaves essential cellular machinery rather than activating other caspases (5-8). Caspase-7 is cleaved by many enzymes, including caspases-3, -6, -8, -9 and granzyme B (1,4,5). Once activated, caspase-7 cleaves many of the same substrates as caspase-3, including poly (ADP-ribose) polymerase, or PARP (2,4).

Specificity/Sensitivity: Caspase-7 (C7) Mouse mAb (Human Specific) detects endogenous levels of caspase-7 proform as well as the 30 and 20 kDa cleaved fragments. This antibody does not cross-react with other caspases.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a recombinant human caspase-7 protein.



Western blot analysis of extract from Jurkat cells, untreated or etoposide-treated, using Caspase-7 (C7) Mouse mAb (Human Specific).

Entrez-Gene ID #840
Swiss-Prot Acc. #P55210

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-mouse secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

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.

Background References:

- (1) Fernandes-Alnemri, T. et al. (1995) *Cancer Res.* 55, 6045-6052.
- (2) Duan, H. et al. (1996) *J. Biol. Chem.* 271, 1621-1625.
- (3) Lippke, J.A. et al. (1996) *J. Biol. Chem.* 271, 1825-1828.
- (4) Cohen, G.M. (1997) *Biochem. J.* 326, 1-16.
- (5) Thornberry, N.A. et al. (1997) *J. Biol. Chem.* 272, 17907-17911.
- (6) Chandler, J.M. et al. (1998) *J. Biol. Chem.* 273, 10815-10818.
- (7) MacFarlane, M. et al. (1997) *J. Cell Biol.* 137, 469-479.
- (8) Nu-ez, G. et al. (1998) *Oncogene* 17, 3237-3245.

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.

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.