

# Caspase-8 (1C12) Mouse mAb

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

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP Endogenous	H	18, 43, 57 kDa	Mouse IgG1**

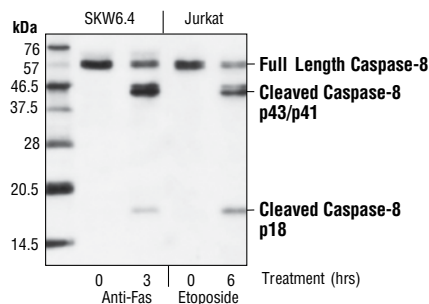
**Background:** Apoptosis induced by CD95 (Fas/APO-1) and tumor necrosis factor receptor 1 (TNFR1) activates caspase-8 (MACH/FLICE/Mch5), leading to the release of the active fragments, p18 and p10, of caspase-8 (1-3). Activated caspase-8 is able to cleave and activate downstream caspases such as caspase-1, -3, -6 and -7. Caspase-3 ultimately elicits the morphological hallmarks of apoptosis, including DNA fragmentation and cell shrinkage.

**Specificity/Sensitivity:** Caspase-8 (1C12) Mouse mAb detects endogenous levels of full length caspase-8 (57 kDa), the cleaved intermediate p43/p41 and the caspase-8 active fragment p18. This antibody does not cross-react with other caspases.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of the p18 fragment of human caspase-8. Antibody is supplied in HEPES buffer with 50% glycerol and less than 0.02% sodium azide.

#### Background References:

- (1) Muzio, M. et al. (1996) *Cell* 85, 817–827.
- (2) Boldin, M.P. et al. (1996) *Cell* 85, 803–815.
- (3) Fernandes-Alnemri, T. et al. (1996) *Proc. Natl. Acad. Sci. USA* 93, 7464–7469.



Western blot analysis of extracts from SKW6.4 cells, untreated or anti-Fas-treated (1 µg/ml), and Jurkat cells, untreated or etoposide-treated (25 µM), using Caspase-8 (1C12) Mouse mAb.

Entrez-Gene ID #841  
UniProt ID #Q14790

**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
Immunoprecipitation	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.

**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.**

#### Caspase 8 Signaling Pathway

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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.