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Product Data Sheet

Purified anti-Caspase-8

Catalog # / Size: 622001 / 25 µg
622002 / 100 µg

Clone: 4-1-20

Isotype: Mouse IgG1, κ

Immunogen: Recombinant full length human protein

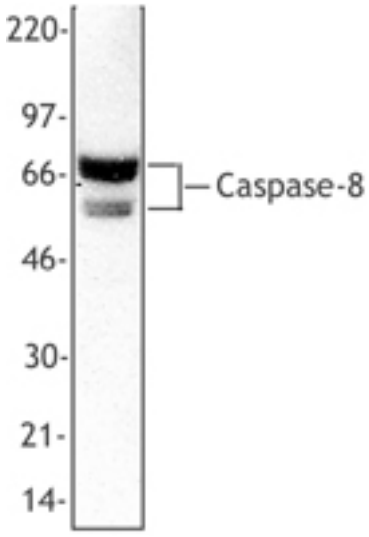
Reactivity: Human, 55 kD pro-caspase form

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: Upon receipt, store at 4°C.



Jurkat cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-caspase 8 antibody. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence system.

Applications:

Applications: WB

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:
1. Liu G, *et al.* 2010. *J. Natl Cancer Inst.* 102:812. PubMed

Description: Caspase 8 (also known as ICE-like apoptotic protease 5, MORT1-associated CED-3 homolog (MACH), FADD-like ICE (FLICE), and apoptotic protease Mch-5) is a member of the peptidase family C14 that contains a death effector domain. Nine isoforms of this caspase have been reported, pro-Caspase 8 has a molecular weight of 55 kD. This caspase is found in the cytoplasm and, upon activation, in the mitochondria. Caspase 8 is the most upstream protease of caspase activation cascade, responsible for TNFRSF6/FAS/TRAIL-R mediated and TNFRSF1A induced cell death. This caspase cleaves/activates Caspase 3, Caspase 4, Caspase 6, Caspase 7, Caspase 9, Caspase 10, and Bid. Caspase 8 can be inhibited by the dominant negative isoform, ARC, and c-FLIP. Caspase 8 autocleaves into large p18 and small p10 subunits when activated by recruitment to the DISC complex at plasma membrane by FADD. This caspase interacts with FADD, CFLAR, and PEA15 proteins. Caspase 8 isoform 9 interacts at the ER with a complex containing BCAP31, BAP29, Bcl-2 and/or Bcl-2L1. Substrates for caspase 8 include androgen receptor, β-catenin, gelsolin, and vimentin. The 4-1-20 monoclonal antibody has been shown to be useful for Western blotting of human caspase 8 (55 kD pro-caspase form).

Antigen References:
1. Boldin M, *et al.* 1996. *Cell.* 85:803.
2. Breckenridge D, *et al.* 2002. *P. Natl. Acad. Sci. USA* 99:4331.
3. Himeji D, *et al.* 2002. *Blood*. 99:4070.
4. van Noesel M. 2003. *Cancer Lett.* 197:165.

Related Products:

Product	Clone	Application
Purified anti-human CD95 (FAS)	DX2	FC, IF, IHC
Purified anti-human CD95 (FAS)	EOS9.1	FC
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB
Purified anti-Caspase-14	14-1-71	WB
Purified anti-Cytochrome c	2.7D5	FC
Purified anti-Caspase-3	4-1-18	WB
Purified anti-PARP	5A5	IF, WB
Purified anti-Cytochrome c	6H2.B4	IP, ICFC, IF, ICC
Purified anti-Cytochrome c	7H8.2C12	WB
Purified anti-Caspase-6	Mono6217	WB
Purified anti-Caspase-7	Mono6218	WB
Purified anti-Caspase-9	96-2-22	IP, WB
Purified anti-BAD	Poly6117	WB
Purified anti-Bcl-2	Poly6119	IF, WB

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Purified anti-BIK	Poly6120	WB
Purified anti-Survivin	Poly6147	WB

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