Store at -200

Smac/Diablo (79-1-83) Mouse mAb



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Applications: WB, IP, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Mouse IgG	UniProt ID: #Q9NR28	Entrez-Gene Id: 56616
Product Usage Information	А	Application Western Blotting			Dilution	
	W				1:1000	
	In	nmunoprecipitation		1:100		
	In	nmunohistochemistry	(Paraffin)	1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensitivity		Smac/Diablo (79-1-83) Mouse mAb detects endogenous levels of processed and unprocessed human Smac/Diablo. The antibody reacts weakly with mouse and rat Smac/Diablo.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a full length peptide corresponding to human Smac/Diablo raised in E-coli.				
Background		Smac/Diablo is a 21 kDa mammalian mitochondrial protein that functions as a regulatory component during apoptosis (1,2). Upon mitochondrial stress, Smac/Diablo is released from mitochondria and competes with caspases for binding of IAPs (inhibitor of apoptosis proteins) (1,2). The interaction of Smac/Diablo with IAPs relieves the inhibitory effect of the IAPs on caspases (3,4). This interaction involves mainly the amino-terminal residues of Smac/Diablo with the BIR3 region of XIAP, supplemented with several other hydrophobic interactions between the helical structures of Smac/Diablo and other areas of BIR3 (5,6).				
Background Ref	2. \ 3. \ 4. \ 5.	 Du, C. et al. (2000) <i>Cell</i> 102, 33-42. Verhagen, A.M. et al. (2000) <i>Cell</i> 102, 43-53. Srinivasula, S.M. et al. (2001) <i>Nature</i> 410, 112-6. Srinivasula, S.M. et al. (2000) <i>J Biol Chem</i> 275, 36152-7. Liu, Z. et al. (2000) <i>Nature</i> 408, 1004-8. Wu, G. et al. (2000) <i>Nature</i> 408, 1008-12. 				

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

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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

GP: Guinea Pig Rab: rabbit All: all species expected

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