#15108 Store at -20C

Smac/Diablo (D5S3R) Rabbit mAb



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Applications: WB, IP, IHC-P, IF-F, IF- IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NR28	Entrez-Gene Id: 56616	
Product Usage Information	Aj	Application				Dilution	
	W	Western Blotting				1:1000	
	Im	Immunoprecipitation				1:50	
	Im	munohistochemistry	(Paraffin)	1:500 - 1:2000			
	Im	Immunofluorescence (Frozen)			1:100 - 1:400		
	Im	Immunofluorescence (Immunocytochemistry)			1:100 - 1:400		
	Flo	ow Cytometry (Fixed	I/Permeabilized)	1:200 - 1:800			
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 (D5S3R) Rabbit mAb recognizes endogenous levels of total Smac/Diablo protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Smac/Diablo protein.					
Background	dur cor Sm ma sev	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 Refe	2. \ 3. \$ 4. \$ 5. L	1. Du, C. et al. (2000) <i>Cell</i> 102, 33-42. 2. Verhagen, A.M. et al. (2000) <i>Cell</i> 102, 43-53. 3. Srinivasula, S.M. et al. (2001) <i>Nature</i> 410, 112-6. 4. Srinivasula, S.M. et al. (2000) <i>J Biol Chem</i> 275, 36152-7. 5. Liu, Z. et al. (2000) <i>Nature</i> 408, 1004-8. 6. 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 BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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

IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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Limited Uses

Smac/Diablo (D5S3R) Rabbit mAb (#15108) Datasheet Without Images Cell Signaling Technology

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