

**#96990** Store at +4°C

## Smac/Diablo (D5S3R) Rabbit mAb (Alexa Fluor® 488 Conjugate)


**Cell Signaling**  
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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9NR28	<b>Entrez-Gene Id:</b> 56616
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity / Sensitivity</b>	Smac/Diablo (D5S3R) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Smac/Diablo protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Smac/Diablo protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Smac/Diablo (D5S3R) Rabbit mAb #15108.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Du, C. et al. (2000) <i>Cell</i> 102, 33-42.</li> <li>2. Verhagen, A.M. et al. (2000) <i>Cell</i> 102, 43-53.</li> <li>3. Srinivasula, S.M. et al. (2001) <i>Nature</i> 410, 112-6.</li> <li>4. Srinivasula, S.M. et al. (2000) <i>J Biol Chem</i> 275, 36152-7.</li> <li>5. Liu, Z. et al. (2000) <i>Nature</i> 408, 1004-8.</li> <li>6. Wu, G. et al. (2000) <i>Nature</i> 408, 1008-12.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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