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Smac/Diablo (D5S3R) Rabbit mAb (Alexa Fluor® 647 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M R	Endogenous	Rabbit IgG	#Q9NR28	56616
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50	
Storage	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.				
Specificity/Sensitivity	Smac/Diablo (D5S3R) Rabbit mAb (Alexa Fluor® 647 Conjugate) 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.				
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 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.				
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 References	<ol style="list-style-type: none"> 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).

Applications Key **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key **H:** Human **M:** Mouse **R:** Rat

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