2954

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



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| Applications: W, IP, IHC-P | Reactivity: H Mk | Sensitivity: Endogenous | MW (kDa): 21 | Source/Isotype: Mouse IgG | UniProt ID: #Q9NR28 | Entrez-Gene Id: 56616 |
|--------------------------------------|---------------------|--|------------------------|-------------------------------------|------------------------|---------------------------------|
| Product Usage | | Application | | | Dilution | |
| Information | | Western Blotting | | | 1:1000 | |
| | | Immunoprecipitation | | | 1:100 | |
| | | Immunohistochemistry (Paraffin) | | | 1:400 | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | |
| | | For a carrier free (BSA and azide free) version of this product see product #19293. | | | | |
| 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 / Purification | | 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 References | | 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 Reactiv | /ity | Species reactivity is de | etermined by testin | g in at least one approve | ed application (e.g., | western blot). |
| Western Blot Buffer | | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat | | | | |

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

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

Cross-Reactivity Key

H: Human Mk: Monkey

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