

Anti-mSmac/DIABLO (CT)

CATALOG No.: PX116A

SIZE: 100 µg

PX116B

SIZE: 0.5 mg

BACKGROUND:

The inhibitor of apoptosis proteins (IAPs) regulate programmed cell death by inhibiting members of the caspase family of enzymes. A novel mammalian protein that binds to IAPs and neutralizes the inhibitory effect of IAPs on caspases was recently identified and designated Smac/DIABLO (1,2). Smac/DIABLO is a mitochondrial protein that is released along with cytochrome c during apoptosis and activates cytochrome c/Apaf-1/caspase-9 pathway. Analysis of the structural basis of Smac/DIABLO reveals that the N-terminal amino acids are required for binding of Smac/DIABLO to IAPs and activation of caspases (3-6). Smac/DIABLO is expressed in a variety of human and mouse tissues (1,2).

SOURCE:

Rabbit anti-mSmac/DIABLO (CT) polyclonal antibody was raised against a peptide (SDEGADQEEEEAYLRED) corresponding to amino acids 222 to 237 of murine Smac/DIABLO (2).

APPLICATION:

This polyclonal antibody can be used for detection of Smac/DIABLO by Western blot at 0.5 to 1 µg/ml. mouse heart tissue lysate can be used as positive control and a 25 kDa band can be detected. It is human, mouse, and rat reactive. For research use only.

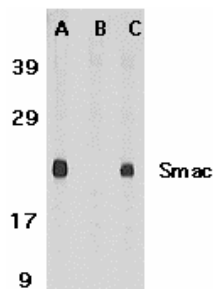
STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

RELATED PRODUCTS:

Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies.

Mouse heart tissue lysate, 200 µg at 2 mg/ml, is available for positive control.



Western blot analysis of Smac in mouse heart tissue lysate in the absence (A) or presence (B) of blocking peptide (2411P) and in rat heart tissue lysate with anti-mSmac at 1 µg/ml.

REFERENCES:

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5. Liu Z, Sun C, Olejniczak ET, Meadows RP, Betz SF, Oost T, Herrmann J, Wu JC, Fesik SW. Structural basis for binding of Smac/DIABLO to the XIAP BIR3 domain. *Nature*. 2000;408(6815):1004-8.
6. Wu G, Chai J, Suber TL, Wu JW, Du C, Wang X, Shi Y. Structural basis of IAP recognition by Smac/DIABLO. *Nature*. 2000;408(6815):1008-12.

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.



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