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Polyclonal Antibody to Human Smac/DIABLO (CT)

Catalog No.: SP6277P

Quantity: 50 µg

Concentration: 0.5 mg/ml

Host: Rabbit

Immunogen: Rabbit anti-Smac/DIABLO (CT) polyclonal antibody was raised against a peptide (EERAESEQEAYLRED) corresponding to amino acids 225 to 239 of human Smac/DIABLO (1). Peptide available as SP6277CP.

Applications: Western blot: 1µg/ml. Human heart tissue lysate can be used as positive control and a 25 kDa band can be detected. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: This antibody recognises the C-terminal region of human Smac/DIABLO.
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/capase-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).
Reacts with mouse and rat. Antibody reactivity and working conditions may vary between species.

Storage: Store the antibody at 4-8°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

1. Du C, Fang M, Li Y, Li L, Wang X. Smac, a mitochondrial protein that promotes cytochrome c-dependent caspase activation by eliminating IAP inhibition. Cell. 2000;102(1):33-42.
2. Verhagen AM, Ekert PG, Pakusch M, Silke J, Connolly LM, Reid GE, Moritz RL, Simpson RJ, Vaux DL. Identification of DIABLO, a mammalian protein that promotes apoptosis by binding to and antagonizing IAP proteins. Cell. 2000;102(1):43-53.
3. Srinivasula SM, Datta P, Fan XJ, Fernandes-Alnemri T, Huang Z, Alnemri ES. Molecular Determinants of the Caspase-promoting Activity of Smac/DIABLO and Its Role in the Death Receptor Pathway. J Biol Chem. 2000;275(46):36152-36157.
4. Chai J, Du C, Wu JW, Kyin S, Wang X, Shi Y. Structural and biochemical basis of apoptotic activation by Smac/DIABLO. Nature. 2000;406(6798):855-62.
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.
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