

Anti-Caspase-9 (I16) *ICE-LAP6, Mch6, Apaf-3*

CATALOG No.: PX028A
PX028B

SIZE: 100 µg
SIZE: 0.5 mg

BACKGROUND:

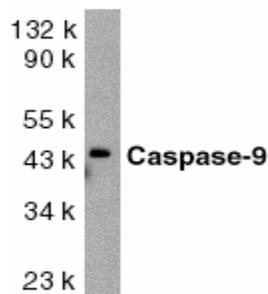
Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. A novel member in the caspase family was recently identified and designated ICE-LAP6, Mch6, and Apaf-3 (1-3). Caspase-9 and Apaf-1 bind to each other, which leads to caspase-9 activation (3). Caspase-9 is also activated by granzyme B and CPP32 (1,2). Activated caspase-9 cleaves and activates caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis (3). Caspase-9 play a central role in cell death induced by a wide variety of apoptosis activators including TNF α , TRAIL, anti-CD-95, FADD, and TRADD (4). Caspase-9 is expressed in a variety of human tissues (1,2).

SOURCE:

Rabbit anti-caspase-9 (I16) polyclonal antibody was raised against a peptide corresponding to amino acids 41 to 56 of human caspase-9 (1-3).

APPLICATION:

This polyclonal antibody can be used for detection of caspase-9 by Western blot at 1:1000 to 1:2000 dilution. Whole cell lysate from HeLa cells can be used as positive control and a 46 kDa band should be detected. It has no cross response to other members in caspase family. It is human, mouse, and rat reactive. This antibody is for research use only.



Western blot analysis of caspase-9 in HeLa whole cell lysate with anti-caspase-9 (I16) at 1:1000 dilution

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.

REFERENCES:

1. Duan H, Orth K, Chinnaiyan AM, Poirier GG, Froelich CJ, He WW, Dixit VM. ICE-LAP6, a novel member of the ICE/Ced-3 gene family, is activated by the cytotoxic T cell protease granzyme B. *J Biol Chem* 1996;271:16720-4
2. Srinivasula SM, Fernandes-Alnemri T, Zangrilli J, Robertson N, Armstrong RC, Wang L, Trapani JA, Tomaselli KJ, Litwack G, Alnemri ES. The Ced-3/interleukin 1beta converting enzyme-like homolog Mch6 and the lamin-cleaving enzyme Mch2alpha are substrates for the apoptotic mediator CPP32. *J Biol Chem* 1996;271:27099-106
3. Li P, Nijhawan D, Budihardjo I, Srinivasula SM, Ahmad M, Alnemri ES, Wang X. Cytochrome c and dATP-dependent formation of Apaf-1/caspase-9 complex initiates an apoptotic protease cascade. *Cell* 1997;91:479-89
4. Pan G, O'Rourke K, Dixit VM. Caspase-9, Bcl-XL, and Apaf-1 form a ternary complex. *J Biol Chem* 1998;273:5841-5

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



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