

## Anti-Caspase-10 (CT) FLICE2

**CATALOG No.:** PX030A      SIZE: 100 µg  
PX030B      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 (DD)- containing adapter molecules and members of the ICE/CED-3 protease family. A novel ICE/CED-3 protease was identified recently, designated FLICE2 and Mch4<sup>1,2</sup> and renamed as caspase-10. Caspase-10 has two death effector domains (DEDs) that bind to the DED in the adapter molecule FADD and recruits both TNFR1 and CD95 to form complexes with these receptors. Caspase-10 is therefore involved in the CD95 and TNFR1 induced apoptosis<sup>1</sup>. Caspase-10 cleaves and activates caspase-3, -4, -6, -7, -8 and -9, which causes the proteolytic cleavage of many key proteins such as PARP. Cleavage of PARP occurs in many different systems during apoptosis and is the hallmark of programmed cell death<sup>3</sup>. Caspase-10 is expressed in many tissues and cell lines<sup>1,2</sup>.

### SOURCE:

Rabbit anti-caspase-10 polyclonal antibody was raised against a peptide corresponding to amino acids 505 to 521 of human FLICE2<sup>1</sup>.

### APPLICATION:

This polyclonal antibody can be used for detection of caspase-10 by Western blot at 1:500 to 1:1000 dilution. HeLa whole cell lysate can be used as positive control and a 59 kDa band can be detected. This antibody only recognizes FLICE2 form of caspase-10. It is human, mouse and rat reactive. For research use only.

Western blot analysis of caspase-10 in HeLa (H), Jurkar (J), A431 (A), K562 (K), and NIH3T3 (3T3) whole cell lysates with anti-caspase-10 at 1:1000 dilution.

### STORAGE:

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

### REFERENCES:

1. Vincenz.C. and Dixit,V.M. Fas-associated death domain protein interleukin-1beta-converting enzyme 2 (FLICE2), an ICE/Ced-3 homologue, is proximally involved in CD95- and p55-mediated death signaling. *J. Biol. Chem.* 1997;272:6578-6583
2. Fernandes-Alnemri T, Armstrong RC, Krebs J, Srinivasula SM, Wang L Bullrich F, Fritz LC, Trapani JA, Tomaselli KJ, Litwack G, Alnemri ES. In vitro activation of CPP32 and Mch3 by Mch4, a novel human apoptotic cysteine protease containing two FADD-like domains. *Proc. Natl. Acad. Sci. USA.* 1996;93:7464-7469
3. Cohen GM. Caspases: the executioners of apoptosis. *Biochem J* 1997;326:1-16

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



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