

Anti-Livin, KIAP Polyclonal Antibody

CATALOG No.: PX228A SIZE: 100 µg
PX228B SIZE: 0.5 mg

BACKGROUND:

Apoptosis, or programmed cell death, is related to many diseases, such as cancer. Apoptosis is triggered by a variety of stimuli including members in the TNF family and prevented by the inhibitor of apoptosis (IAP) proteins. IAP proteins form a conserved gene family that binds to and inhibits cell death proteases. A novel member in the IAP protein family was recently identified and designated Livin and KIAP for kidney IAP (1,2). Livin/XIAP contains a single baculoviral IAP repeat (BIR) domain and a RING finger domain and has two isoforms termed Livin- α and Livin- β (1,3). Transfection of Livin in cells resulted in protection from apoptosis induced by FADD, BAX, RIP, RIP3 and DR6 (1). Livin has direct interaction with several caspases including caspase-3, -7, and -9. Livin inhibits the activation of caspase-9 induced by Apaf-1, cytochrome c, and dATP. The two isoforms of Livin appear to have different functions and tissue distributions.

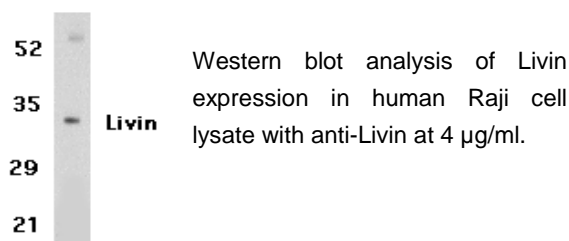
SOURCE:

Rabbit anti-Livin polyclonal antibody was raised with a synthetic peptide (CRAPVRSRVRTFLS) corresponding to amino acids 264 to 280 of the short form and 281 to 298 of the long form of human Livin (1,3). This sequence is identical between α and β forms of the Livin proteins.

APPLICATION:

This antibody can be used for detection of Livin by Western blot at 2 to 4 µg/ml. Human Raji cell lysate

can be used as a positive control and a band at 33 kDa can be detected. A lower but much weaker band at 30 kDa was detected in Raji cell lysate, which may represent the short form of Livin.



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.

Human Raji cell lysate, 100 µg at 2 mg/ml, is available for positive control.

REFERENCES:

1. Kasof GM, Gomes BC. Livin, a novel inhibitor of apoptosis protein family member. *J Biol Chem.* 2001;276(5):3238-46.
2. Lin JH, Deng G, Huang Q, Morser J. KIAP, a novel member of the inhibitor of apoptosis protein family. *Biochem Biophys Res Commun.* 2000;279(3):820-31.
3. Ashhab Y, Alian A, Polliack A, Panet A, Yehuda DB. Two splicing variants of a new inhibitor of apoptosis gene with different biological properties and tissue distribution pattern. *FEBS Lett.* 2001;495(1-2):56-60.

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



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