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Store at -20C
#4952

c-IAP1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #Q13490	Entrez-Gene Id: 329
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

c-IAP1 Antibody detects endogenous levels of c-IAP1. At physiological levels, cross reactivity was not detected with other family members.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region between the first two BIR domains of c-IAP1. Antibodies are purified by protein A and affinity chromatography.

Background

The inhibitor of apoptosis protein (IAP) family consists of an evolutionarily conserved group of apoptosis inhibitors containing a conserved 70 amino acid BIR (baculovirus inhibitor repeat) domain (1,2). Human members of this family include c-IAP1, c-IAP2, XIAP, survivin, livin, and NAIP. Overexpression of IAP family members, particularly survivin and livin, in cancer cell lines and primary tumors suggests an important role for these proteins in cancer progression (3-5). In general, the IAP proteins function through direct interactions to inhibit the activity of several caspases, including caspase-3, caspase-7, and caspase-9 (5,6). In addition, binding of IAP family members to the mitochondrial protein Smac blocks their interaction with caspase-9, thereby allowing the processing and activation of the caspase (2).

Background References

1. Deveraux, Q.L. and Reed, J.C. (1999) *Genes Dev* 13, 239-52.
2. Deveraux, Q.L. et al. (1998) *EMBO J* 17, 2215-23.
3. Altieri, D.C. et al. (1999) *Lab Invest* 79, 1327-33.
4. Tamm, I. et al. (2000) *Clin Cancer Res* 6, 1796-803.
5. Kasof, G.M. and Gomes, B.C. (2001) *J Biol Chem* 276, 3238-46.
6. Deveraux, Q.L. et al. (1997) *Nature* 388, 300-4.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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