

#4952 Store at -20°C

c-IAP1 Antibody



100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #329
Swiss-Prot Acc. #Q13490

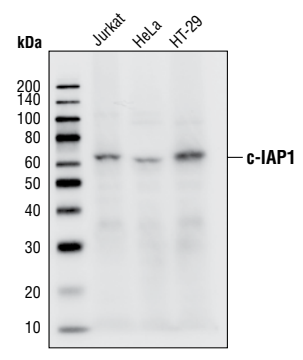
Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R	62 kDa	Rabbit**

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 the 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 suggest 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 (7).

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 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.
 - (7) Deveraux, Q.L. et al. (1998) *EMBO J* 17, 2215-23.



Western blot analysis of extracts from Jurkat, HeLa, and HT29 cells, using c-IAP1 Antibody.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:
Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.