

# XIAP Antibody

- Small 100 µl  
(10 Western mini-blot)
- Large 300 µl  
(30 Western mini-blot)

rev. 09/22/08

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignal.com

**Support** ■ 877-678-TECH (8324)  
info@cellsignal.com

**Web** ■ www.cellsignal.com

This product is for *in vitro* research use only and is not intended for use in humans or animals.  
This product is not intended for use as a therapeutic or in diagnostic procedures.

| Applications    | Species Cross-Reactivity* | Molecular Wt. | Source   |
|-----------------|---------------------------|---------------|----------|
| W<br>Endogenous | H, M, R, Mk               | 53 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 its interaction with caspase-9, thereby allowing the processing and activation of the caspase (7).

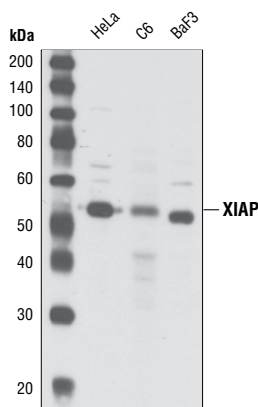
**Specificity/Sensitivity:** XIAP Antibody detects endogenous levels of total XIAP protein. The antibody does not cross-react with other inhibitors of apoptosis.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to the amino terminus of human XIAP. Antibodies are purified by protein A and peptide affinity chromatography.

#### Selected Application References:

Guegan, C. et al. (2001) Recruitment of the mitochondrial-dependent apoptotic pathway in amyotrophic lateral sclerosis. *J. Neurosci.* 21 (17), 6569-6576. Application: W.

Rosato, R.R. et al. (2003) Simultaneous activation of the intrinsic and extrinsic pathways by histone deacetylase (HDAC) inhibitors and tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) synergistically induces mitochondrial damage and apoptosis in human leukemia cells. *Mol. Cancer Ther.* 2, 1273-1284. Application: W.



Western blot analysis of extracts from HeLa (human), C6 (rat) and BaF3 (mouse) cell lines, using XIAP Antibody.

#### 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.

Entrez-Gene ID #331  
Swiss-Prot Acc. #P98170

**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](http://www.cellsignal.com).

#### Companion Products:

Survivin (6E4) Mouse mAb #2802  
c-IAP2 (58C7) Rabbit mAb #3130  
c-IAP1 Antibody #4952  
Cleaved Caspase-7 (Asp198) Antibody #9491  
Caspase-7 Antibody #9492  
Cleaved Caspase-9 (Asp330) Antibody (Human Specific) #9501  
Caspase-9 Antibody (Human Specific) #9502  
Cleaved Caspase-9 (Asp315) Antibody (Human Specific) #9505  
Cleaved Caspase-3 (Asp175) Antibody #9661  
Caspase-3 Antibody #9662  
Caspase-8 (1C12) Mouse mAb #9746  
Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071  
Anti-rabbit IgG, HRP-linked Antibody #7074  
Prestained Protein Marker, Broad Range (Premixed Format) #7720  
Biotinylated Protein Ladder #7727  
20X LumiGLO® Reagent and 20X Peroxide #7003  
SignalSilence® XIAP siRNA (Human specific) #6446  
SignalSilence® XIAP siRNA Kit (Human Specific) #6445

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

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

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E—ELISA 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—zebra fish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.