

#2045 Store at -20°C

XIAP (3B6) Rabbit mAb

✓ 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 #331
Swiss-Prot Acc. #P98170

Applications W Endogenous	Species Cross-Reactivity* H, Mk	Molecular Wt. 53 kDa	Isotype Rabbit IgG**
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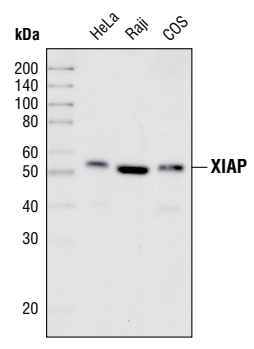
Background: The inhibitor of apoptosis protein (IAP) family consists of an evolutionarily conserved group of apoptosis inhibitors containing a conserved 70 amino acid BIR (baculovirus inhibitor repeat) domain (1,2). Human members of the family include c-IAP-1, c-IAP-2, XIAP, Survivin, Livin and NAIP. 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 (3B6) Rabbit mAb detects endogenous levels of XIAP. No cross reactivity was observed with other IAP family members.

Source/Purification: Rabbit monoclonal antibodies are prepared from spleens obtained from animals immunized with a synthetic peptide (KLH-coupled) corresponding to a region surrounding serine 245 of human XIAP.

Background References:

- (1) Deveraux, Q.L. and Reed, J.C. (1999) *Genes Dev.* 13, 239–252.
- (2) Deveraux, Q. L. et al. (1998) *EMBO J.* 17, 2215–2223.
- (3) Altieri, D.C. and Marchisio, C. (1999) *Lab. Invest.* 79, 1327–1333.
- (4) Tamm, I. et al. (2000) *Clin. Cancer Res.* 6, 1796–1803.
- (5) Kasof, G.M. and Gomes, B.C. (2001) *J. Biol. Chem.* 276, 3238–3246.
- (6) Deveraux, Q.L. et al. (1997) *Nature* 388, 300–304.
- (7) Deveraux, Q.L. et al. (1998) *EMBO J.* 17, 2215–2223.



Western blot analysis of extracts from HeLa, Raji and COS cell lines, using XIAP (3B6) Rabbit mAb.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. 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.cellsignaling.com.

Please visit www.cellsignaling.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.