

#2042 Store at -20°C

XIAP Antibody



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

Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 53	Source: Rabbit	UniProt ID: #P98170	Entrez-Gene Id: 331
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Product Usage Information	Application Western Blotting Simple Western™	Dilution 1:1000 1:10 - 1:50
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	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 corresponding to the amino terminus of human XIAP. Antibodies are purified by protein A and peptide 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) <i>Genes Dev</i> 13, 239-52. 2. Deveraux, Q.L. et al. (1998) <i>EMBO J</i> 17, 2215-23. 3. Altieri, D.C. et al. (1999) <i>Lab Invest</i> 79, 1327-33. 4. Tamm, I. et al. (2000) <i>Clin Cancer Res</i> 6, 1796-803. 5. Kasof, G.M. and Gomes, B.C. (2001) <i>J Biol Chem</i> 276, 3238-46. 6. Deveraux, Q.L. et al. (1997) <i>Nature</i> 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting W-S: Simple Western™
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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