

**XIAP Polyclonal Antibody**  
**Catalog # AP73096****Specification****XIAP Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P98170</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**XIAP Polyclonal Antibody - Additional Information****Gene ID** 331**Other Names**

XIAP; API3; BIRC4; IAP3; E3 ubiquitin-protein ligase XIAP; Baculoviral IAP repeat-containing protein 4; IAP-like protein; ILP; hILP; Inhibitor of apoptosis protein 3; IAP-3; hIAP-3; hIAP3; X-linked inhibitor of apoptosis protein; X-linked I

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.  
IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**XIAP Polyclonal Antibody - Protein Information****Name** XIAP {ECO:0000303|PubMed:12121969, ECO:0000312|HGNC:HGNC:592}**Function**

Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, copper homeostasis, mitogenic kinase signaling, cell proliferation, as well as cell invasion and metastasis (PubMed:<a href="http://www.uniprot.org/citations/11257230" target="\_blank">11257230</a>, PubMed:<a href="http://www.uniprot.org/citations/11257231" target="\_blank">11257231</a>, PubMed:<a href="http://www.uniprot.org/citations/11447297" target="\_blank">11447297</a>, PubMed:<a href="http://www.uniprot.org/citations/12121969" target="\_blank">12121969</a>, PubMed:<a href="http://www.uniprot.org/citations/12620238" target="\_blank">12620238</a>, PubMed:<a href="http://www.uniprot.org/citations/17560374" target="\_blank">17560374</a>, PubMed:<a href="http://www.uniprot.org/citations/17967870" target="\_blank">17967870</a>, PubMed:<a href="http://www.uniprot.org/citations/19473982" target="\_blank">19473982</a>, PubMed:<a href="http://www.uniprot.org/citations/20154138" target="\_blank">20154138</a>, PubMed:<a

href="http://www.uniprot.org/citations/22103349" target="\_blank">22103349</a>, PubMed:<a href="http://www.uniprot.org/citations/9230442" target="\_blank">9230442</a>). Acts as a direct caspase inhibitor (PubMed:<a href="http://www.uniprot.org/citations/11257230" target="\_blank">11257230</a>, PubMed:<a href="http://www.uniprot.org/citations/11257231" target="\_blank">11257231</a>, PubMed:<a href="http://www.uniprot.org/citations/12620238" target="\_blank">12620238</a>). Directly bind to the active site pocket of CASP3 and CASP7 and obstructs substrate entry (PubMed:<a href="http://www.uniprot.org/citations/11257230" target="\_blank">11257230</a>, PubMed:<a href="http://www.uniprot.org/citations/11257231" target="\_blank">11257231</a>, PubMed:<a href="http://www.uniprot.org/citations/16352606" target="\_blank">16352606</a>, PubMed:<a href="http://www.uniprot.org/citations/16916640" target="\_blank">16916640</a>). Inactivates CASP9 by keeping it in a monomeric, inactive state (PubMed:<a href="http://www.uniprot.org/citations/12620238" target="\_blank">12620238</a>). Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and the target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, RIPK2, MAP3K2/MEKK2, DIABLO/SMAC, AIFM1, CCS, PTEN and BIRC5/survivin (PubMed:<a href="http://www.uniprot.org/citations/17560374" target="\_blank">17560374</a>, PubMed:<a href="http://www.uniprot.org/citations/17967870" target="\_blank">17967870</a>, PubMed:<a href="http://www.uniprot.org/citations/19473982" target="\_blank">19473982</a>, PubMed:<a href="http://www.uniprot.org/citations/20154138" target="\_blank">20154138</a>, PubMed:<a href="http://www.uniprot.org/citations/22103349" target="\_blank">22103349</a>, PubMed:<a href="http://www.uniprot.org/citations/22607974" target="\_blank">22607974</a>, PubMed:<a href="http://www.uniprot.org/citations/29452636" target="\_blank">29452636</a>, PubMed:<a href="http://www.uniprot.org/citations/30026309" target="\_blank">30026309</a>). Acts as an important regulator of innate immunity by mediating 'Lys-63'-linked polyubiquitination of RIPK2 downstream of NOD1 and NOD2, thereby transforming RIPK2 into a scaffolding protein for downstream effectors, ultimately leading to activation of the NF-kappa-B and MAP kinases signaling (PubMed:<a href="http://www.uniprot.org/citations/19667203" target="\_blank">19667203</a>, PubMed:<a href="http://www.uniprot.org/citations/22607974" target="\_blank">22607974</a>, PubMed:<a href="http://www.uniprot.org/citations/29452636" target="\_blank">29452636</a>, PubMed:<a href="http://www.uniprot.org/citations/30026309" target="\_blank">30026309</a>). 'Lys-63'-linked polyubiquitination of RIPK2 also promotes recruitment of the LUBAC complex to RIPK2 (PubMed:<a href="http://www.uniprot.org/citations/22607974" target="\_blank">22607974</a>, PubMed:<a href="http://www.uniprot.org/citations/29452636" target="\_blank">29452636</a>). Regulates the BMP signaling pathway and the SMAD and MAP3K7/TAK1 dependent pathways leading to NF-kappa-B and JNK activation (PubMed:<a href="http://www.uniprot.org/citations/17560374" target="\_blank">17560374</a>). Ubiquitination of CCS leads to enhancement of its chaperone activity toward its physiologic target, SOD1, rather than proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/20154138" target="\_blank">20154138</a>). Ubiquitination of MAP3K2/MEKK2 and AIFM1 does not lead to proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/17967870" target="\_blank">17967870</a>, PubMed:<a href="http://www.uniprot.org/citations/22103349" target="\_blank">22103349</a>). Plays a role in copper homeostasis by ubiquitinating COMMD1 and promoting its proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/14685266" target="\_blank">14685266</a>). Can also function as E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting effector caspases for neddylation and inactivation (PubMed:<a href="http://www.uniprot.org/citations/21145488" target="\_blank">21145488</a>). Ubiquitinates and therefore mediates the proteasomal degradation of BCL2 in response to apoptosis (PubMed:<a href="http://www.uniprot.org/citations/29020630" target="\_blank">29020630</a>). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner (PubMed:<a href="http://www.uniprot.org/citations/22095281" target="\_blank">22095281</a>). Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8 (PubMed:<a href="http://www.uniprot.org/citations/22095281" target="\_blank">22095281</a>). Acts as a positive regulator of Wnt signaling and ubiquitinates TLE1, TLE2, TLE3, TLE4 and AES (PubMed:<a href="http://www.uniprot.org/citations/22304967" target="\_blank">22304967</a>). Ubiquitination of TLE3 results in inhibition of its interaction with TCF7L2/TCF4 thereby allowing

efficient recruitment and binding of the transcriptional coactivator beta-catenin to TCF7L2/TCF4 that is required to initiate a Wnt-specific transcriptional program (PubMed:<a href="http://www.uniprot.org/citations/22304967" target="\_blank">22304967</a>).

#### Cellular Location

Cytoplasm. Nucleus. Note=TLE3 promotes its nuclear localization.

#### Tissue Location

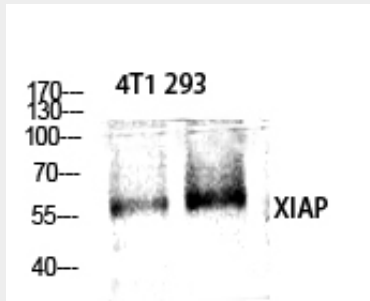
Expressed in colonic crypts (at protein level) (PubMed:30389919). Ubiquitous, except peripheral blood leukocytes (PubMed:8654366).

### XIAP Polyclonal Antibody - Protocols

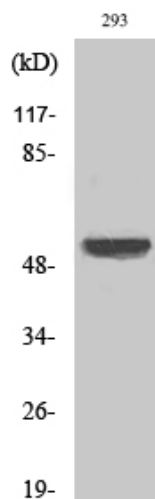
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

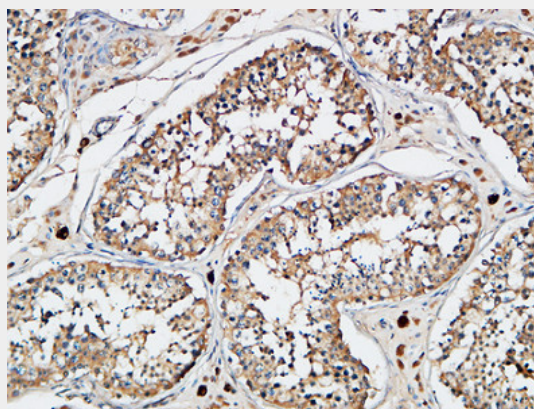
### XIAP Polyclonal Antibody - Images



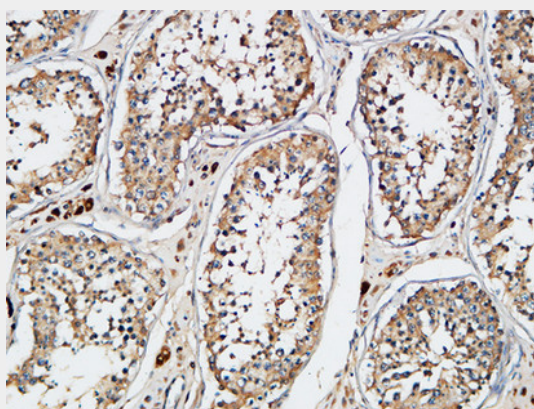
Western Blot analysis of various cells using XIAP Polyclonal Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000



Western Blot analysis of 293 cells using XIAP Polyclonal Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000

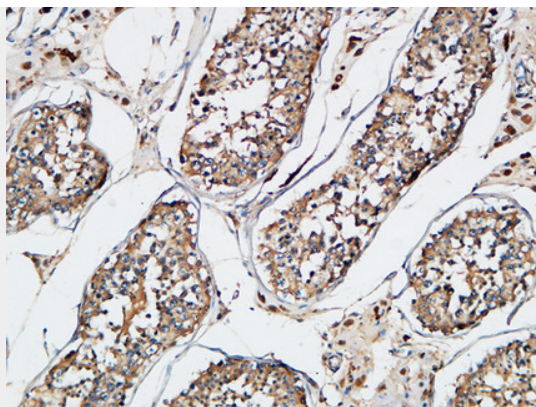


Immunohistochemical analysis of paraffin-embedded Human testis. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

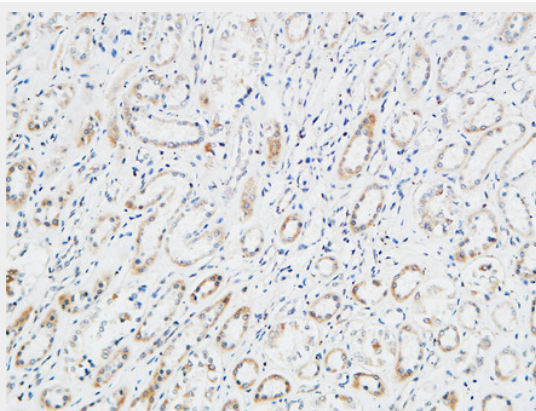


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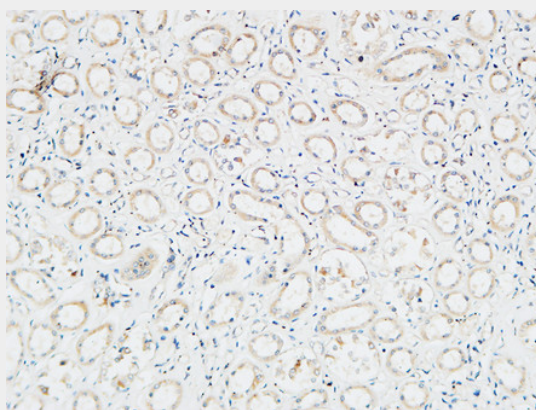




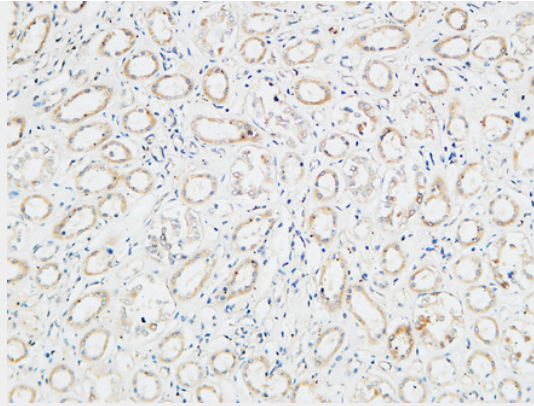
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Immunohistochemical analysis of paraffin-embedded Human kidney. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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### **XIAP Polyclonal Antibody - Background**

Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, copper homeostasis, mitogenic kinase signaling, cell proliferation, as well as cell invasion and metastasis. Acts as a direct caspase inhibitor. Directly bind to the active site pocket of CASP3 and CASP7 and obstructs substrate entry. Inactivates CASP9 by keeping it in a monomeric, inactive state. Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and the target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, CASP3, CASP7, CASP8, CASP9, MAP3K2/MEKK2, DIABLO/SMAC, AIFM1, CCS and BIRC5/survivin. Ubiquitination of CCS leads to enhancement of its chaperone activity toward its physiologic target, SOD1, rather than proteasomal degradation. Ubiquitination of MAP3K2/MEKK2 and AIFM1 does not lead to proteasomal degradation. Plays a role in copper homeostasis by ubiquitinating COMMD1 and promoting its proteasomal degradation. Can also function as E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting effector caspases for neddylation and inactivation. Regulates the BMP signaling pathway and the SMAD and MAP3K7/TAK1 dependent pathways leading to NF-kappa-B and JNK activation. Acts as an important regulator of innate immune signaling via regulation of Nodlike receptors (NLRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8. Acts as a positive regulator of Wnt signaling and ubiquitinates TLE1, TLE2, TLE3, TLE4 and AES. Ubiquitination of TLE3 results in inhibition of its interaction with TCF7L2/TCF4 thereby allowing efficient recruitment and binding of the transcriptional coactivator beta- catenin to TCF7L2/TCF4 that is required to initiate a Wnt-specific transcriptional program.