Rabbit XIAP Polyclonal Antibody | anti-XIAP antibody

Phospho-XIAP (Ser87) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31060	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA**

PRODUCT SYNONYMS

XIAP; Polyclonal Antibody; Phospho-XIAP (Ser87) Antibody; AP 13; API3; Apoptosis Inhibitor 3; Baculoviral IAP repeat containing 4; Baculoviral IAP Repeat Containing Protein 4; Baculoviral IAP repeat-containing protein 4; BIRC 4; BIRC4; E3 ubiquitin-protein ligase XIAP; hIAP-3; hIAP3; HILP; IAP 3; IAP like protein; IAP-3; IAP-like protein; IAP3; ILP 1; ILP; ILP1; Inhibitor of apoptosis protein 3; Inhibitor of Apoptosis X Linked; Mammalian IAP Homologue A; MIHA; X linked IAP; X linked inhibitor of apoptosis; X linked inhibitor of apoptosis E3 ubiquitin protein ligase; X linked inhibitor of apoptosis protein; X-linked IAP; X-linked inhibitor of apoptosis protein; Xiap; XIAP_HUMAN; XLP2; anti-XIAP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-XIAP (Ser87) antibody detects endogenous levels of XIAP only when phosphorylated at Serine 87
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	497
Applicable Applications for anti-XIAP antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500
Immunogen	A synthesized peptide derived from human XIAP around the phosphorylation site of Serine 87
Subcellular Location	Cytoplasm.
Tissue Specificity	Ubiquitous, except peripheral blood leukocytes.
Predicted Cross Reactivity	**Pig, Horse, Sheep, Rabbit**
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser87
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

WB (Western Blot)
Western blot analysis of XIAP phosphorylation expression in Anisomycin treated HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

IF (Immunofluorescence)
AAA31060 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

IHC (Immunohistchemistry)
AAA31060 at 1/200 staining Mouse pancreas tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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ADDITIONAL INFORMATION

Related Product Information for anti-XIAP antibody	Description: The protein encoded by this gene is a member of a family of proteins which inhibit apoptosis through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2. Similar to API1, BIRC4 inhibits apoptosis induced by menadione, a potent inducer of free radicals, and ICE. 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. 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. Ubiquitinion of CCS leads to enhancement of its chaperone activity toward its physiologic target, SOD1, rather than proteasomal degradation. Ubiquitinion of MAP3K2/MEKK2 and AIFM1 does not lead to proteasomal degradation. Plays a role in copper homeostasis by ubiquitinationg 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. Subunit Structure: Monomer, and homodimer. Interacts with DIABLO/SMAC and with PRSS25; these interactions inhibit apoptotic suppressor activity. Interacts with TAB1/MAP3K7IP1 and AIFM1. Interaction with SMAC hinders binding of TAB1/MAP3K7IP1 and AIFM1. Interacts with TCF25 and COMMD1. Interacts with SEPT4 isoform 6, but not with other SEPT4 isoforms. Interacts with RIP1, RIP2, RIP3, RIP4, CCS and USP19. Interacts (via BIR 2 domain and BIR 3 domain) with HAX1 (via C-terminus) and this interaction blocks ubiquitination of XIAP/BIRC4. Interacts with the monomeric form of BIRC5/survivin. Interacts with TLE3 and TCF7L2/TCF4. Post-translational Modifications: S-Nitrosylation down-regulates its E3 ubiquitin-protein ligase activity. Autoubiquitinated and degraded by the proteasome in apoptotic cells. Phosphorylation by PKB/AKT protects XIAP against ubiquitination and protects the protein against proteasomal degradation. Similarity: The first BIR domain is involved in interaction with TAB1/MAP3K7IP1 and is important for dimerization. The second BIR domain is sufficient to inhibit CASP3 and CASP7, while the third BIR is involved in CASP9 inhibition. The interactions with DIABLO/SMAC and PRSS25 are mediated by the second and third BIR domains. Belongs to the IAP family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32528299
NCBI GeneID	331
NCBI Accession #	NP_001158.2
NCBI GenBank Nucleotide #	NM_001167.3
UniProt Accession #	P98170; Q9NQ14; D3DTF2
Molecular Weight	Observed: 57 kDa Predicted: 57 kDa
NCBI Official Full Name	E3 ubiquitin-protein ligase XIAP
NCBI Official Synonym Full Names	X-linked inhibitor of apoptosis
NCBI Official Symbol	XIAP
NCBI Official Synonym Symbols	API3; ILP1; MIHA; XLP2; BIRC4; IAP-3; hIAP3; hIAP-3
NCBI Protein Information	E3 ubiquitin-protein ligase XIAP
UniProt Protein Name	E3 ubiquitin-protein ligase XIAP
UniProt Gene Name	**XIAP**

UniProt Synonym Gene Names	API3; BIRC4; IAP3; ILP; hILP; IAP-3; hIAP-3; hIAP3; X-linked IAP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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