XIAP Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	XIAP, Blocking Peptide
Full Product Name	XIAP Blocking Peptide
Product Gene Name	XIAP blocking peptide
Product Synonym Names	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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	XIAP peptide (MBS9617486) is used for blocking the activity of XIAP antibody (MBS9601932)
Molecular Weight	56,685 Da
Chromosome Location	Chromosome: X; NC_000023.10 (122993662..123047829). Location: Xq25
OMIM	300079
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for XIAP blocking peptide	Blocking/Control
Related Product Information for XIAP blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of XIAP blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for XIAP purchase	MBS9617486 is a blocking peptide targeting XIAP.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XIAP. It may not necessarily be applicable to this product.

NCBI GI #	32528299
NCBI GeneID	331

NCBI Accession #	NP_001158.2
UniProt Primary Accession #	P98170
UniProt Secondary Accession #	Q9NQ14; D3DTF2
UniProt Related Accession #	P98170
GenBank Nucleotide #	NM_001167.3
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
UniProt Protein Name	E3 ubiquitin-protein ligase XIAP
UniProt Synonym Protein Names	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
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	XIAP
UniProt Synonym Gene Names	API3; BIRC4; IAP3; ILP; hILP; IAP-3; hIAP-3; hIAP3
UniProt Entry Name	XIAP_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase XIAP; X-linked IAP; IAP-like protein; inhibitor of apoptosis protein 3; baculoviral IAP repeat-containing protein 4
NCBI Summary for XIAP	This gene encodes a protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.[provided by RefSeq, Feb 2011]
UniProt Comments for XIAP	XIAP: an apoptotic suppressor protein. Inhibist apoptosis through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2. Inhibits apoptosis induced by menadione, a potent inducer of free radicals, and ICE. Inhibits cell-death proteases, caspase-3, caspase-7, and perhaps caspase-9. Protein type: Ligase; Ubiquitin conjugating system; Ubiquitin ligase; EC 6.3.2.-; Apoptosis Chromosomal Location of Human Ortholog: Xq25 Cellular Component: nucleoplasm; spindle microtubule; cytoplasm; nucleus; cytosol Molecular Function: protein binding; zinc ion binding; caspase inhibitor activity; ubiquitin-protein ligase activity; ligase activity Biological Process: Wnt receptor signaling pathway; positive regulation of protein ubiquitination; apoptosis; regulation of inflammatory response; regulation of BMP signaling pathway; protein ubiquitination; negative regulation of caspase activity; response to DNA damage stimulus; copper ion homeostasis; regulation of innate immune response; negative regulation of apoptosis; regulation of cell proliferation Disease: Lymphoproliferative Syndrome, X-linked, 1; Lymphoproliferative Syndrome, X-linked, 2
Research Articles on XIAP	**1.** Downregulation of uPAR and cathepsin B quenched TGF-beta1-driven invasion and survival of meningioma cells in a XIAP-dependent manner.

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