XIAP Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	XIAP, Blocking Peptide
Full Product Name	XIAP Peptide - middle region
Product Gene Name	XIAP blocking peptide
Product Synonym Gene Name	API3; ILP1; MIHA; XLP2; BIRC4; IAP-3; hIAP3; hIAP-3
Sequence	Synthetic peptide located within the following region: GGGLTDWKPS EDPWEQHAKW YPGCKYLLEQ KGQEYINNIH LTHSLEECLV
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	XIAP peptide (MBS3245840) is used for blocking the activity of XIAP antibody (MBS3221049)
Molecular Weight	54 kDa
OMIM	300079
Product Categories/Family for XIAP blocking peptide	Peptide
Related Product Information for XIAP blocking peptide	This is a synthetic peptide designed for use in combination with anti- XIAP Antibody, made Target Description: 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.
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	MBS3245840 is a blocking peptide targeting XIAP. Also known as XIAP Peptide - middle region. Reactive in Human.

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 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
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.** WT1 loss positively affected the expression of the X-linked inhibitor of apoptosis protein, XIAP, and genetic or chemical inhibition with embelin (a XIAP inhibitor) significantly restored sensitivity to gamma-radiation in both T-cell acute lymphoblastic leukemia cell lines and patient-derived xenografts.
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