SKP2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SKP2, Blocking Peptide
Full Product Name	SKP2 Peptide - middle region
Product Gene Name	SKP2 blocking peptide
Product Synonym Gene Name	p45; FBL1; FLB1; FBXL1
Sequence	Synthetic peptide located within the following region: ELNLSWCFDF TEKHVQVAVA HVSETITQLN LSGYRKNLQK SDLSTLVRRC
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	SKP2 peptide (MBS3248539) is used for blocking the activity of SKP2 antibody (MBS3224204)
Molecular Weight	46 kDa
OMIM	601436
Product Categories/Family for SKP2 blocking peptide	Peptide
Related Product Information for SKP2 blocking peptide	This is a synthetic peptide designed for use in combination with anti- SKP2 Antibody, made Target Description: This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class; in addition to an F-box, this protein contains 10 tandem leucine-rich repeats. This protein is an essential element of the cyclin A-CDK2 S-phase kinase. It specifically recognizes phosphorylated cyclin-dependent kinase inhibitor 1B (CDKN1B, also referred to as p27 or KIP1) predominantly in S phase and interacts with S-phase kinase-associated protein 1 (SKP1 or p19). In addition, this gene is established as a protooncogene causally involved in the pathogenesis of lymphomas. Alternative splicing of this gene generates three transcript variants encoding different isoforms.
Other Notes	Small volumes of SKP2 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 SKP2 purchase	MBS3248539 is a blocking peptide targeting SKP2. Also known as SKP2 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SKP2. It may not necessarily be applicable to this product.

NCBI GI #	340805881
NCBI GeneID	6502
NCBI Accession #	NP_001230049.1
UniProt Primary Accession #	Q13309

UniProt Related Accession #	Q13309
GenBank Nucleotide #	NM_001243120.1
NCBI Official Full Name	S-phase kinase-associated protein 2 isoform 3
NCBI Official Synonym Full Names	S-phase kinase associated protein 2
NCBI Official Symbol	SKP2
NCBI Official Synonym Symbols	p45; FBL1; FLB1; FBXL1
UniProt Protein Name	S-phase kinase-associated protein 2
UniProt Synonym Protein Names	Cyclin-A/CDK2-associated protein p45; F-box protein Skp2; F-box/LRR-repeat protein 1; p45skp2
Protein Family	F-box protein
UniProt Gene Name	SKP2
UniProt Synonym Gene Names	FBXL1
UniProt Entry Name	SKP2_HUMAN
NCBI Protein Information	S-phase kinase-associated protein 2
NCBI Summary for SKP2	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class; in addition to an F-box, this protein contains 10 tandem leucine-rich repeats. This protein is an essential element of the cyclin A-CDK2 S-phase kinase. It specifically recognizes phosphorylated cyclin-dependent kinase inhibitor 1B (CDKN1B, also referred to as p27 or KIP1) predominantly in S phase and interacts with S-phase kinase-associated protein 1 (SKP1 or p19). In addition, this gene is established as a protooncogene causally involved in the pathogenesis of lymphomas. Alternative splicing of this gene generates three transcript variants encoding different isoforms. [provided by RefSeq, Jul 2011]
UniProt Comments for SKP2	SKP2: an F-box protein of the SCF (SKP1-CUL1-F- box protein) E3 ubiquitin ligase system. The F-box component of the SCF complex is responsible for recognizing different substrates for ubiquitination. The SCF E3 complex mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Three alternatively-spliced isoforms have been described. Protein type: Ubiquitin conjugating system; Cell cycle regulation Chromosomal Location of Human Ortholog: 5p13 Cellular Component: nucleoplasm; cytoplasm; nucleolus; SCF ubiquitin ligase complex; nucleus; cytosol Molecular Function: identical protein binding; protein binding; ubiquitin-protein ligase activity Biological Process: regulation of apoptosis; cell proliferation; protein polyubiquitination; regulation of cell cycle; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; positive regulation of smooth muscle cell proliferation; positive regulation of estrogen receptor signaling pathway; mitotic cell cycle; G2/M transition of mitotic cell cycle; G1/S transition of mitotic cell cycle
Research Articles on SKP2	**1.** MiR-339 targets the 3'-untranslated region of Skp2 mRNA to depress the proliferation of lung cancer cells.
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