

Recombinant Human SKP2 protein, His/T7-tagged

Cat. No. SKP2-36H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SKP2(Lys43~Ala397) fused with His/T7 at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	43-397 a.a.
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.

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Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	43.7KDa
AA Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. KEEPDSEN IPQELLSNLG HPESPPRKRL KSKGSDKDFV IVRRPKLNRE NFPGVSWDSL PDELLLGIFS CLCLPELLKV SGVCKRWYRL ASDESLWQTL DLTGKNLHPD VTGRLLSQGV IAFRCPRSFM DQPLAEHFSP FRVQHMDLSN SVIEVSTLHG ILSQCCKLQN LSLEGLRLSD PIVNTLAKNS NLVRLNLSGC SGFSEFALQT LLSSCSRLDE LNLSWCFDFT EKHVQVAVAH VSETITQLNL SGYRKNLQKS DLSTLVRRCP NLVHLDLSDS VMLKNDCFQE FFQLNYLQHL SLSRCYDIIP ETLLELGEIP TLKTLQVFGI VPDGTLQLLK EALPHLQINC SHFTTIA
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SKP2 S-phase kinase-associated protein 2, E3 ubiquitin protein ligase [Homo sapiens]
Official Symbol	SKP2

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Synonyms	p45; FBL1; FLB1; FBXL1; S-phase kinase-associated protein 2; CDK2/cyclin A-associated protein p45; F-box/LRR-repeat protein 1; S-phase kinase-associated protein 2 (p45); p45skp2
Gene ID	6502
mRNA Refseq	NM_001243120
Protein Refseq	NP_001230049
MIM	601436
UniProt ID	Q13309
Chromosome Location	5p13
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Cell Cycle, organism-specific biosystem
Function	identical protein binding; protein binding; ubiquitin-protein transferase activity