

Recombinant Human SKP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SKP2-1144H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SKP2 MS Standard C13 and N15-labeled recombinant protein (NP_005974) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	47.6 kDa

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AA Sequence	MHRKHLQEIPDLSSNVATSFTWGWDSSTSELLSGMGVSALEKEEPDSENIPQELL SNLGHPESPPrKRLKSKGSDKDFVIVRRPKLNRENFPGVSWDLPDELLLGIFSCLC LPELLKVSGVCKRWYRLASDESLWQTLDTGKNLHPDVTGRLLSQGVIAFRCPRSF MDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNLSEGLRLSDPIVNTLA KNSNLVRLNLSGCSGFSEFALQTLSSCSRLELNLSWCFDFTEKHVQVAVAHVSE TITQLNLSGYRKNLQKSDLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHL SLSRCYDIIPETLLELGEIPTLKTQVFGIVPDGTLQLLKEALPHLQINCSHFTTIARPTI GNKKNQEIWGIKCRLLTQKPSCLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SKP2 S-phase kinase associated protein 2 [Homo sapiens (human)]
Official Symbol	SKP2
Synonyms	SKP2; S-phase kinase-associated protein 2, E3 ubiquitin protein ligase; S phase kinase associated protein 2 (p45); S-phase kinase-associated protein 2; FBL1; FBXL1; p45; p45skp2; F-box/LRR-repeat protein 1; CDK2/cyclin A-associated protein p45; S-phase kinase-associated protein 2 (p45); FLB1; MGC1366;

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Gene ID	6502
mRNA Refseq	NM_005983
Protein Refseq	NP_005974
MIM	601436
UniProt ID	Q13309
SDS-PAGE	