



Human SKP2 peptide (DAG-P1138)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jul 2011]

Conjugate	Unconjugated
Sequence Similarities	Contains 1 F-box domain.Contains 9 LRR (leucine-rich) repeats.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

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

Synonyms	SKP2; S-phase kinase-associated protein 2, E3 ubiquitin protein ligase; p45; FBL1; FLB1; FBXL1; S-phase kinase-associated protein 2; p45skp2; F-box/LRR-repeat protein 1; CDK2/cyclin A-associated protein p45; S-phase kinase-associated protein 2 (p45);
Entrez Gene ID	6502
mRNA Refseq	NM_001243120.1
Protein Refseq	NP_001230049.1
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; Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; C-MYC pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell
Function	identical protein binding; protein binding; ubiquitin-protein ligase activity;