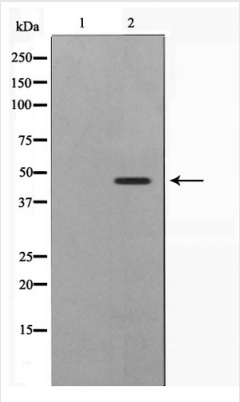
SKP2/p45 Antibody

PRODUCT OVERVIEW

Product Name	SKP2/p45, Antibody
Full Product Name	SKP2/p45 Antibody
Product Gene Name	anti-SKP2/p45 antibody
Product Synonym Names	CDK2/cyclin A-associated protein p45; cyclin A/CDK2-associated protein p45; Cyclin-A/CDK2-associated protein p45; F-box protein Skp2; F-box/LRR-repeat protein 1; FBL1; FBXL1; FLB1; MGC1366; p45skp2; S-phase kinase-associated protein 2; S-phase kinase-ass
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	SKP2/p45 Antibody detects endogenous levels of SKP2/p45
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	47kDa
OMIM	601436
3D Structure	ModBase 3D Structure for Q13309
Immunogen	A synthesized peptide derived from human SKP2/p45
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SKP2/p45 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-SKP2/p45 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500
Related Product Information for anti-SKP2/p45 antibody	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.
Other Notes	Small volumes of anti-SKP2/p45 antibody 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/p45 purchase	MBS8510939 is an antibody targeting SKP2/p45. Also known as SKP2/p45 Antibody. Reactive in Human.



Western Blot (WB) of anti-SKP2/p45 antibody
Western blot analysis on 293 cell lysate using SKP2/p45 Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SKP2/p45. 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 Secondary Accession #	Q8TDZ0; Q8TDZ1; Q9BV69; A8K5E0; B4DJT4
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
UniProt Gene Name	SKP2
UniProt Synonym Gene Names	FBXL1
NCBI Protein Information	S-phase kinase-associated protein 2
NCBI Summary for SKP2/p45	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/p45	Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which 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. Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, FOXO1, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2. Promotes ubiquitination and destruction of CDH1 in a CK1-Dependent Manner, thereby regulating cell migration.
Research Articles on SKP2/p45	**1.** Levels of p21 and p27 were decreased in TACO or pAKT overexpressing HCC due to SKP2 upregulation.
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