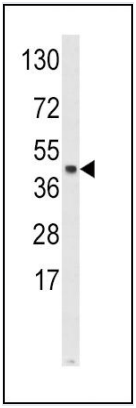
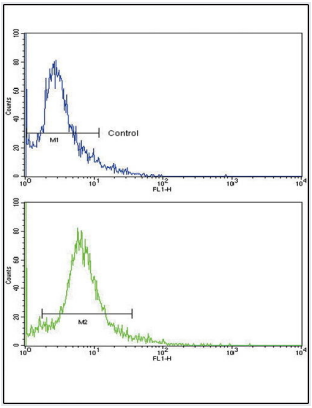
SKP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SKP2, Polyclonal Antibody
Full Product Name	SKP2, ID (S-phase Kinase-associated Protein 2, F-box Protein Skp2, Cyclin A/CDK2-associated Protein p45, p45skp2, F-box/LRR-repeat Protein 1, FBXL1) (MaxLight 490)
Product Gene Name	anti-SKP2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human SKP2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46 kDa
OMIM	601436
3D Structure	ModBase 3D Structure for Q13309
Immunogen	Synthetic peptide selected from the center region of human SKP2 (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-SKP2 antibody	Antibodies; Ubiquitin Ligases
Applications Tested/Suitable for anti-SKP2 antibody	Western Blot (WB), FLISA
Application Notes for anti-SKP2 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SKP2 antibody	MBS6500409 is an antibody targeting SKP2. Also known as SKP2, ID (S-phase Kinase-associated Protein 2, F-box Protein Skp2, Cyclin A/CDK2-associated Protein p45, p45skp2, F-box/LRR-repeat Protein 1, FBXL1) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SKP2 antibody	1. Hussain, A.R., et.al., Leuk. Lymphoma 50(7), 1204-1213 (2009). 2. Yam, C.H., et.al., Mol. Cell. Biol. 19(1), 635-645 (1999).
Other Notes	Small volumes of anti-SKP2 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.



Western Blot (WB) of anti-SKP2 antibody
Western blot analysis of SKP2 Antibody (Center) in Hela cell line lysates (35ug/lane). SKP2 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-SKP2 antibody
Flow cytometric analysis of hela cells using SKP2 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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_005974
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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