SKP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SKP1, Polyclonal Antibody
Full Product Name	SKP1 Conjugated Antibody
Product Gene Name	anti-SKP1 antibody
Product Synonym Names	OCP2; p19A; EMC19; SKP1A; OCP-II
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total SKP1 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	18,658 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (133492082..133512724, complement). Location: 5q31
OMIM	601434
3D Structure	ModBase 3D Structure for P63208
Immunogen	Recombinant protein of human SKP1.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SKP1 antibody	Most Applications
Application Notes for anti-SKP1 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SKP1 antibody	This gene encodes a component of SCF complexes, which are composed of this protein, cullin 1, a ring-box protein, and one member of the F-box family of proteins. This protein binds directly to the F-box motif found in F-box proteins. SCF complexes are involved in the regulated ubiquitination of specific protein substrates, which targets them for degradation by the proteosome. Specific F-box proteins recognize different target protein (s), and many specific SCF substrates have been identified including regulators of cell cycle progression and development. Studies have also characterized the protein as an RNA polymerase II elongation factor. Alternative splicing of this gene results in two transcript variants. A related pseudogene has been identified on chromosome 7.
Other Notes	Small volumes of anti-SKP1 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 SKP1 purchase	MBS9443816 is an antibody targeting SKP1. Also known as SKP1 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SKP1. It may not necessarily be applicable to this product.

NCBI GI #	25777711
NCBI GeneID	6500
NCBI Accession #	NP_008861.2
UniProt Primary Accession #	P63208
UniProt Secondary Accession #	P34991; Q8TAY2; D3DQ97; D3DQ98
UniProt Related Accession #	P63208
GenBank Nucleotide #	NM_006930.3
NCBI Official Full Name	S-phase kinase-associated protein 1 isoform a
NCBI Official Synonym Full Names	S-phase kinase-associated protein 1
NCBI Official Symbol	SKP1
NCBI Official Synonym Symbols	OCP2; p19A; EMC19; SKP1A; OCP-II; TCEB1L
UniProt Protein Name	S-phase kinase-associated protein 1
UniProt Synonym Protein Names	Cyclin-A/CDK2-associated protein p19; Organ of Corti protein 2; OCP-2; Organ of Corti protein II; OCP-II; RNA polymerase II elongation factor-like protein; SIII; Transcription elongation factor B; p19A; p19skp1
Protein Family	S-phase kinase-associated protein
UniProt Gene Name	SKP1
UniProt Synonym Gene Names	EMC19; OCP2; SKP1A; TCEB1L; OCP-2; OCP-II
UniProt Entry Name	SKP1_HUMAN
NCBI Protein Information	S-phase kinase-associated protein 1; SIII; OCP-2; p19skp1; organ of Corti protein 2; organ of Corti protein II; cyclin A/CDK2-associated p19; transcription elongation factor B; cyclin A/CDK2-associated protein p19; cyclin-A/CDK2-associated protein p19; RN
NCBI Summary for SKP1	This gene encodes a component of SCF complexes, which are composed of this protein, cullin 1, a ring-box protein, and one member of the F-box family of proteins. This protein binds directly to the F-box motif found in F-box proteins. SCF complexes are involved in the regulated ubiquitination of specific protein substrates, which targets them for degradation by the proteosome. Specific F-box proteins recognize different target protein(s), and many specific SCF substrates have been identified including regulators of cell cycle progression and development. Studies have also characterized the protein as an RNA polymerase II elongation factor. Alternative splicing of this gene results in two transcript variants. A related pseudogene has been identified on chromosome 7. [provided by RefSeq, Jul 2008]

UniProt Comments for SKP1	SKP1A: Essential component of the SCF (SKP1-CUL1-F-box protein) ubiquitin ligase complex, which mediates the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, serves as an adapter that links the F-box protein to CUL1. SCF(BTRC) mediates the ubiquitination of NFKBIA at 'Lys-21' and 'Lys-22'; the degradation frees the associated NFKB1-RELA dimer to translocate into the nucleus and to activate transcription. SCF(Cyclin F) directs ubiquitination of CP110. Component of an E3 ubiquitin ligase complex containing UBE2D1, SIAH1, CACYBP/SIP, SKP1, APC and TBL1X. Component of the SCF(BTRC) complex, composed of SKP1, CUL1 and BTRC. Part of a SCF(BTRC)-like complex lacking CUL1, which is associated with phosphorylated NFKBIA and RELA; RELA interacts directly with NFKBIA. Component of the SCF(FBXO44) complex, composed of SKP1, CUL1 and FBXO44. Identified in a complex with SKP2, CKS1B and p27Kip1. Interacts with the cyclin A/CDK2 complex. Part of a SCF- like complex consisting of CUL7, RBX1, SKP1 and FBXW8. Part of several SCF complexes containing SKP1 and one of the F-box proteins. Component of a SCF(SKP2)-like complex containing CUL1, SKP1, TRIM21 and SKP2. Interacts with FBXO2, FBXO4, FBXW7 and TRIM21. Interacts with FBXO45. Component of the SCF(FBXO17) complex, composed of SKP1, CUL1 and FBXO17. Component of the SCF(FBXO27) complex, composed of SKP1, CUL1 and FBXO27. Component of the SCF(Cyclin F) complex consisting of CUL1, RBX1, SKP1 and CCNF. Belongs to the SKP1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 5q31 Cellular Component: nucleoplasm; SCF ubiquitin ligase complex; PcG protein complex; cytosol Molecular Function: protein binding; ubiquitin-protein ligase activity Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; circadian rhythm; SCF-dependent proteasomal ubiquitin-dependent protein catabolic process; Notch signaling pathway; viral reproduction; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; protein ubiquitination; mitotic cell cycle; G2/M transition of mitotic cell cycle; G1/S transition of mitotic cell cycle
Research Articles on SKP1	**1.** Skp1-Cul1-F-box ubiquitin ligase (SCF(betaTrCP))-mediated destruction of the ubiquitin-specific protease USP37 during G2-phase promotes mitotic entry
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