

Anti-SKP1 (C-terminal specific) (RABBIT) Antibody - 100-401-A08
Code: 100-401-A08

Size: 100 µL

Product Description: Anti-SKP1 (C-terminal specific) (RABBIT) Antibody - 100-401-A08

Concentration: 85 mg/mL by Refractometry

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	SKP1
Species Reactivity	human
Buffer	None
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-SKP1 Antibody, Cyclin A/CDK2 associated protein p19 antibody, EMC 19 antibody, OCP 2 antibody, p19skp1 antibody, RNA polymerase II elongation factor like protein antibody, S phase kinase associated protein 1 antibody
Application Note	This antibody reacts with human SKP1 by western blot and immunoprecipitation. The antibody immunoprecipitates in vitro translated protein and protein from cell lysates (using HeLa, NIH-3T3, and others). Coimmunoprecipitation of cyclin A and Cuol1 may occur. An 18.5 kDa band corresponding to human SKP1 is detected. Most cell lines expressing SKP1 can be used as a positive control. Researchers should determine optimal titers for other applications.
Background	SKP1 is also known as S-phase kinase-associated protein 1A, Cyclin A/CDK2-associated protein p19, p19A, p19skp1, RNA polymerase II elongation factor-like protein, Organ of Corti protein 2, OCP-II protein, OCP-2, Transcription elongation factor B, and SIII. SKP1 is an 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, SKP1 serves as an adapter that links the F-box protein to CUL1. SKP1 interacts directly with CUL1 and F-box proteins, such as BTRC and SKP2, in the SCF complex. SKP1 also interacts with FBX29 and the cyclin A/CDK2 complex. SKP1 is part of a SCF-like complex consisting of CUL7, RBX1, SKP1 and FBXW8 and is also a component of a E3 ubiquitin ligase complex containing UBE2D1, SIAH1, CACYBP/SIP, SKP1A, APC and TBL1X.
Purity And Specificity	This product is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human SKP1. Cross reactivity is expected against mouse SKP1 based on a high degree of sequence homology. Cross reactivity with other SKP1 proteins or SKP1 from other sources is not known.
Assay Dilutions	User Optimized
ELISA	1:2,000 - 1:10,000
Western Blot	1:500 - 1:1,000
Immunohistochemistry	User Optimized
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 152-163 of Human SKP1 (C-terminus) coupled to KLH.
General Reference	Jentsch S, Pyrowolakis G. (2000) Ubiquitin and its kin: how close are the family ties? Trends Cell Biol. 10(8):335-42. Sowden, J., Morrison, K., Schofield, J., Putt, W. and Edwards, Y. (1995) A novel cDNA with homology to an RNA polymerase II elongation factor maps to human chromosome 5q31 (TCEB1L) and to mouse chromosome 11 (Tceb1l). Genomics 29 (1), 145-151. Liang, Y., Chen, H., Asher, J.H. Jr., Chang, C.C. and Friedman, T.B. (1997) Human inner ear OCP2 cDNA maps to 5q22-5q35.2 with related sequences on chromosomes 4p16.2-4p14, 5p13-5q22, 7pter-q22, 10 and 12p13-12qte. Gene 184 (2), 163-167.

Specific Reference

Michel, J.J. and Xiong, Y. (1998) Human CUL-1, but not other cullin family members, selectively interacts with SKP1 to form a complex with SKP2 and cyclin A. *Cell Growth Differ.* 9 (6), 435-449. Ohta, T., Michel, J.J., Schottelius, A.J. and Xiong, Y. (1999) ROC1, a homolog of APC11, represents a family of cullin partners with an associated ubiquitin ligase activity. *Mol. Cell* 3 (4), 535-541. Zhang, H., Kobayashi, R., Galaktionov, K. and Beach, D. (1995) p19Skp1 and p45Skp2 are essential elements of the cyclin A-CDK2 S phase kinase. *Cell* 82 (6), 915-925.

Related Products

000-001-485	F-Box Protein 43 (Fbp5B) CONTROL PEPTIDE - 000-001-485
000-001-490	F-Box Protein Fbp5A CONTROL PEPTIDE - 000-001-490
100-401-A01	Anti-Cul1 (C-terminal specific) [RABBIT] Antibody - 100-401-A01
100-401-A02	Anti-Cul2 (C-terminal specific) [RABBIT] Antibody - 100-401-A02

Related Links

UniProtKB - P63208

<http://www.uniprot.org/uniprot/P63208>

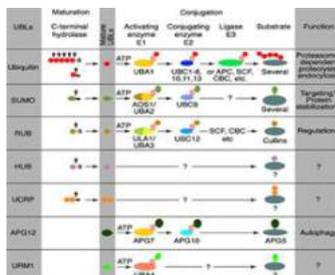
NCBI - 52783797 <http://www.ncbi.nlm.nih.gov/protein/52783797>

GeneID - 6500

Images

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Most modifiers mature by proteolytic processing from inactive precursors (a; amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thioesters (S) with the modifiers. Modification of cullins by RUB involves SCF(SKP1/cullin-1/F-box protein) /CBC(cullin-2/elongin B/elonginC) -like E3 enzymes that are also involved in ubiquitination. In contrast to ubiquitin, the UBLs do not seem to form multi-UBL chains. UCRP(ISG15) resembles two ubiquitin moieties linked head-to-tail. Whether HUB1 functions as a modifier is currently unclear. APG12 and URM1 are distinct from the other modifiers because they are unrelated in sequence to ubiquitin. Data contributed by S.Jentsch.



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