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SKP1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1937c

Product Information

Application	WB, E
Primary Accession	P63208
Other Accession	Q71U00, Q6PEC4, Q9WTX5, Q4R5B9, Q5ZKF5, Q3ZCF3
Reactivity	Human
Predicted	Bovine, Chicken, Monkey, Mouse, Rat, Xenopus, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB9342
Calculated MW	18658
Antigen Region	58-87

Additional Information

Gene ID	6500
Other Names	S-phase kinase-associated protein 1, Cyclin-A/CDK2-associated protein p19, p19A, 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 polypeptide 1-like, p19skp1, SKP1, EMC19, OCP2, SKP1A, TCEB1L
Target/Specificity	This SKP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-87 amino acids from the Central region of human SKP1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SKP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SKP1

Synonyms	EMC19, OCP2, SKP1A, TCEB1L
Function	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. The functional specificity of the SCF complex depends on the F-box protein as substrate recognition component. SCF(BTRC) and SCF(FBXW11) direct ubiquitination of CTNNB1 and participate in Wnt signaling. SCF(FBXW11) directs ubiquitination of phosphorylated NFKBIA. SCF(BTRC) directs ubiquitination of NFKBIB, NFKBIE, ATF4, SMAD3, SMAD4, CDC25A, FBXO5, CEP68 and probably NFKB2 (PubMed:25704143). SCF(SKP2) directs ubiquitination of phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. SCF(SKP2) directs ubiquitination of ORC1, CDT1, RBL2, ELF4, CDKN1A, RAG2, FOXO1A, and probably MYC and TAL1. SCF(FBXW7) directs ubiquitination of cyclin E, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. SCF(FBXW2) directs ubiquitination of GCM1. SCF(FBXO32) directs ubiquitination of MYOD1. SCF(FBXO7) directs ubiquitination of BIRC2 and DLGAP5. SCF(FBXO33) directs ubiquitination of YBX1. SCF(FBXO11) directs ubiquitination of BCL6 and DTL but does not seem to direct ubiquitination of TP53. 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(CCNF) directs ubiquitination of CCP110. SCF(FBXL3) and SCF(FBXL21) direct ubiquitination of CRY1 and CRY2. SCF(FBXO9) directs ubiquitination of TTI1 and TELO2. SCF(FBXO10) directs ubiquitination of BCL2. Core component of the Cul7-RING(FBXW8) ubiquitin ligase complex, which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:35982156). Also acts as a core component of the Cul1- RING(FBXL4) ubiquitin ligase complex, which mediates the ubiquitination and subsequent proteasomal degradation of BNIP3 and BNI3L (PubMed:36896912).

Background

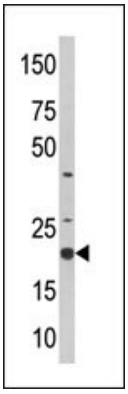
SKP1A is an F-box protein which functions as a substrate recognition component of the SCF ubiquitin ligase complex. It binds to cyclin F, S-phase kinase-associated protein 2, and other regulatory proteins involved in ubiquitin proteolysis through an F-box motif. SKP1A also collaborates with a network of proteins to control beta-catenin levels and affects the activity level of beta-catenin dependent TCF transcription factors. Studies have also characterized the protein as an RNA polymerase II elongation factor.

References

Wu, G., et al., Mol. Cell 11(6):1445-1456 (2003).
Piva, R., et al., Mol. Cell. Biol. 22(23):8375-8387 (2002).
Matsuzawa, S.I., et al., Mol. Cell 7(5):915-926 (2001).
Schulman, B.A., et al., Nature 408(6810):381-386 (2000).
Winston, J.T., et al., Genes Dev. 13(3):270-283 (1999).

Images

Western blot analysis of anti-SKP1A Pab (Cat. #AP1937c) in CEM cell line lysate (35ug/lane). SKP1A(arrow) was detected using the purified Pab.



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