

**SKP2 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8503C**

**Specification**

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**SKP2 Antibody (Center) - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">O13309</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>47761</b>
Antigen Region	<b>156-185</b>

**SKP2 Antibody (Center) - Additional Information**

**Gene ID** 6502

**Other Names**

S-phase kinase-associated protein 2, Cyclin-A/CDK2-associated protein p45, F-box protein Skp2, F-box/LRR-repeat protein 1, p45skp2, SKP2, FBXL1

**Target/Specificity**

This SKP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-185 amino acids from the Central region of human SKP2.

**Dilution**

WB~~1:1000

FC~~1:10~50

**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**

SKP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**SKP2 Antibody (Center) - Protein Information**

**Name** SKP2

**Synonyms** FBXL1

**Function** 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 (PubMed:[11931757](#), PubMed:[12435635](#), PubMed:[12769844](#), PubMed:[12840033](#), PubMed:[15342634](#), PubMed:[15668399](#), PubMed:[15949444](#), PubMed:[16103164](#), PubMed:[16262255](#), PubMed:[16581786](#), PubMed:[16951159](#), PubMed:[17908926](#), PubMed:[17962192](#), PubMed:[22464731](#), PubMed:[22770219](#), PubMed:[32267835](#)). Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition (By similarity). Degradation of CDKN1B/p27kip also requires CKS1 (By similarity). Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, NBN, FOXO1, UBP43, YTHDF2, and probably MYC, TOB1 and TAL1 (PubMed:[11931757](#), PubMed:[12435635](#), PubMed:[12769844](#), PubMed:[12840033](#), PubMed:[15342634](#), PubMed:[15668399](#), PubMed:[15949444](#), PubMed:[16103164](#), PubMed:[16581786](#), PubMed:[16951159](#), PubMed:[17908926](#), PubMed:[17962192](#), PubMed:[22464731](#), PubMed:[32267835](#)). Degradation of TAL1 also requires STUB1 (PubMed:[17962192](#)). Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2 (PubMed:[16262255](#)). Promotes ubiquitination and destruction of CDH1 in a CK1-dependent manner, thereby regulating cell migration (PubMed:[22770219](#)). Following phosphorylation in response to DNA damage, mediates 'Lys-63'-linked ubiquitination of NBN, promoting ATM recruitment to DNA damage sites and DNA repair via homologous recombination (PubMed:[22464731](#)).

#### **Cellular Location**

Cytoplasm. Nucleus

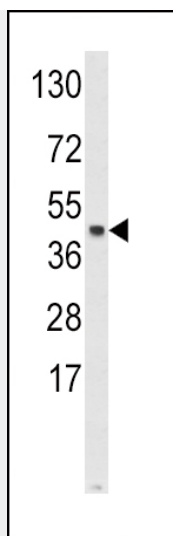
#### **SKP2 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

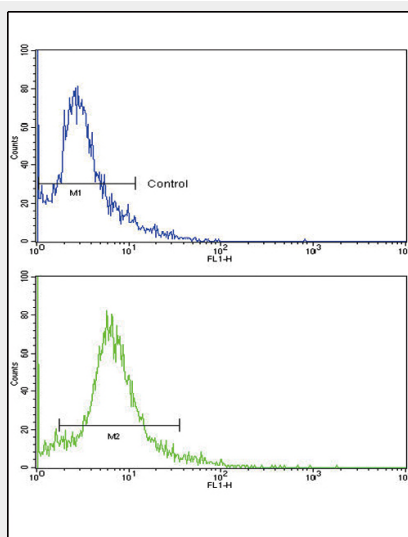
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **SKP2 Antibody (Center) - Images**





Western blot analysis of SKP2 Antibody (Center) (Cat. #AP8503c) in HeLa cell line lysates (35ug/lane). SKP2 (arrow) was detected using the purified Pab.



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.

### SKP2 Antibody (Center) - Background

SKP2 is 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.

### SKP2 Antibody (Center) - References

Hussain,A.R., et.al., Leuk. Lymphoma 50 (7), 1204-1213 (2009)  
Yam,C.H., et.al., Mol. Cell. Biol. 19 (1), 635-645 (1999)