

SKP2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8503c**Specification**

SKP2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q13309](#)**SKP2 Antibody (Center) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP8503c](/products/AP8503c) was selected from the Center region of human SKP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SKP2 Antibody (Center) Blocking Peptide - 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](http://www.uniprot.org/citations/11931757), PubMed: [12435635](http://www.uniprot.org/citations/12435635), PubMed: [12769844](http://www.uniprot.org/citations/12769844), PubMed: [12840033](http://www.uniprot.org/citations/12840033), PubMed: [15342634](http://www.uniprot.org/citations/15342634), PubMed: [15668399](http://www.uniprot.org/citations/15668399)).

[15949444](http://www.uniprot.org/citations/15949444), PubMed: [16103164](http://www.uniprot.org/citations/16103164), PubMed: [16262255](http://www.uniprot.org/citations/16262255), PubMed: [16581786](http://www.uniprot.org/citations/16581786), PubMed: [16951159](http://www.uniprot.org/citations/16951159), PubMed: [17908926](http://www.uniprot.org/citations/17908926), PubMed: [17962192](http://www.uniprot.org/citations/17962192), PubMed: [22770219](http://www.uniprot.org/citations/22770219), PubMed: [32267835](http://www.uniprot.org/citations/32267835)). Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition (By similarity). Degradation of CDKN1B/p27kip also requires CKS1. Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, FOXO1, UBP43, YTHDF2, and probably MYC, TOB1 and TAL1 (PubMed: [11931757](http://www.uniprot.org/citations/11931757) target="_blank">11931757, PubMed: [12435635](http://www.uniprot.org/citations/12435635) target="_blank">12435635, PubMed: [12769844](http://www.uniprot.org/citations/12769844) target="_blank">12769844, PubMed: [12840033](http://www.uniprot.org/citations/12840033) target="_blank">12840033, PubMed: [15342634](http://www.uniprot.org/citations/15342634) target="_blank">15342634, PubMed: [15668399](http://www.uniprot.org/citations/15668399) target="_blank">15668399, PubMed: [15949444](http://www.uniprot.org/citations/15949444) target="_blank">15949444, PubMed: [16103164](http://www.uniprot.org/citations/16103164) target="_blank">16103164, PubMed: [17962192](http://www.uniprot.org/citations/17962192) target="_blank">17962192, PubMed: [16581786](http://www.uniprot.org/citations/16581786) target="_blank">16581786, PubMed: [16951159](http://www.uniprot.org/citations/16951159) target="_blank">16951159, PubMed: [17908926](http://www.uniprot.org/citations/17908926) target="_blank">17908926, PubMed: [32267835](http://www.uniprot.org/citations/32267835) target="_blank">32267835). Degradation of TAL1 also requires STUB1 (PubMed: [17962192](http://www.uniprot.org/citations/17962192) target="_blank">17962192). Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2 (PubMed: [16262255](http://www.uniprot.org/citations/16262255) target="_blank">16262255). Promotes ubiquitination and destruction of CDH1 in a CK1-dependent manner, thereby regulating cell migration (PubMed: [22770219](http://www.uniprot.org/citations/22770219) target="_blank">22770219).

Cellular Location

Cytoplasm. Nucleus

SKP2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SKP2 Antibody (Center) Blocking Peptide - Images

SKP2 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)