

# SKP2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51511

## Product Information

Application	WB
Primary Accession	<a href="#">Q13309</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47761

## 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	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SKP2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## 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: <a href="#">9736735</a> , PubMed: <a href="#">11931757</a> , PubMed: <a href="#">12435635</a> , PubMed: <a href="#">12769844</a> , PubMed: <a href="#">12840033</a> , PubMed: <a href="#">15342634</a> , PubMed: <a href="#">15668399</a> , PubMed: <a href="#">15949444</a> , PubMed: <a href="#">16103164</a> , PubMed: <a href="#">16262255</a> , PubMed: <a href="#">16581786</a> , PubMed: <a href="#">16951159</a> , PubMed: <a href="#">17908926</a> , PubMed: <a href="#">17962192</a> , PubMed: <a href="#">22464731</a> , PubMed: <a href="#">22770219</a> , PubMed: <a href="#">32267835</a> ). 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:[9736735](#), 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

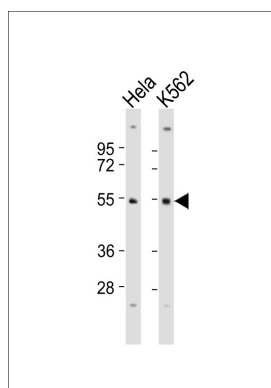
## Background

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. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, FOXO1, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2. Promotes ubiquitination and destruction of CDH1 in a CK1-Dependent Manner, thereby regulating cell migration.

## References

Zhang H.,et al.Cell 82:915-925(1995).  
Yamaguchi T.,et al.Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases.  
Kokontis J.M.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Schmutz J.,et al.Nature 431:268-274(2004).

## Images



All lanes : Anti-SKP2 Antibody at 1:1000 dilution Lane 1: Hela whole cell lysates Lane 2: K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.