

**Anti-SKP2 Antibody**  
Catalog # ABO10565**Specification**

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**Anti-SKP2 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">Q13309</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**Description**

Rabbit IgG polyclonal antibody for S-phase kinase-associated protein 2(SKP2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SKP2 Antibody - 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

**Calculated MW**

47761 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Cytoplasm . Nucleus .

**Protein Name**

S-phase kinase-associated protein 2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human SKP2(2-20aa HRKHLQEIPDLSSNVATSF), different from the related rat and mouse sequences by three amino acids.

**Purification**

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins

### Storage

At -20°C for one year. After r<sup>o</sup> Constitution, at 4°C for one month. It<sup>o</sup> Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Sequence Similarities

Contains 1 F-box domain.

## Anti-SKP2 Antibody - 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="http://www.uniprot.org/citations/11931757" target="\_blank">11931757</a>, PubMed:<a href="http://www.uniprot.org/citations/12435635" target="\_blank">12435635</a>, PubMed:<a href="http://www.uniprot.org/citations/12769844" target="\_blank">12769844</a>, PubMed:<a href="http://www.uniprot.org/citations/12840033" target="\_blank">12840033</a>, PubMed:<a href="http://www.uniprot.org/citations/15342634" target="\_blank">15342634</a>, PubMed:<a href="http://www.uniprot.org/citations/15668399" target="\_blank">15668399</a>, PubMed:<a href="http://www.uniprot.org/citations/15949444" target="\_blank">15949444</a>, PubMed:<a href="http://www.uniprot.org/citations/16103164" target="\_blank">16103164</a>, PubMed:<a href="http://www.uniprot.org/citations/16262255" target="\_blank">16262255</a>, PubMed:<a href="http://www.uniprot.org/citations/16581786" target="\_blank">16581786</a>, PubMed:<a href="http://www.uniprot.org/citations/16951159" target="\_blank">16951159</a>, PubMed:<a href="http://www.uniprot.org/citations/17908926" target="\_blank">17908926</a>, PubMed:<a href="http://www.uniprot.org/citations/17962192" target="\_blank">17962192</a>, PubMed:<a href="http://www.uniprot.org/citations/22464731" target="\_blank">22464731</a>, PubMed:<a href="http://www.uniprot.org/citations/22770219" target="\_blank">22770219</a>, PubMed:<a href="http://www.uniprot.org/citations/32267835" target="\_blank">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:<a href="http://www.uniprot.org/citations/11931757" target="\_blank">11931757</a>, PubMed:<a href="http://www.uniprot.org/citations/12435635" target="\_blank">12435635</a>, PubMed:<a href="http://www.uniprot.org/citations/12769844" target="\_blank">12769844</a>, PubMed:<a href="http://www.uniprot.org/citations/12840033" target="\_blank">12840033</a>, PubMed:<a href="http://www.uniprot.org/citations/15342634" target="\_blank">15342634</a>, PubMed:<a href="http://www.uniprot.org/citations/15668399" target="\_blank">15668399</a>, PubMed:<a href="http://www.uniprot.org/citations/15949444" target="\_blank">15949444</a>, PubMed:<a href="http://www.uniprot.org/citations/16103164" target="\_blank">16103164</a>, PubMed:<a href="http://www.uniprot.org/citations/16581786" target="\_blank">16581786</a>, PubMed:<a href="http://www.uniprot.org/citations/16951159" target="\_blank">16951159</a>, PubMed:<a href="http://www.uniprot.org/citations/17908926" target="\_blank">17908926</a>, PubMed:<a href="http://www.uniprot.org/citations/17962192" target="\_blank">17962192</a>, PubMed:<a href="http://www.uniprot.org/citations/22464731" target="\_blank">22464731</a>, PubMed:<a href="http://www.uniprot.org/citations/32267835" target="\_blank">32267835</a>). Degradation of TAL1 also requires STUB1 (PubMed:<a

[17962192](http://www.uniprot.org/citations/17962192)). Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2 (PubMed: [16262255](http://www.uniprot.org/citations/16262255)). Promotes ubiquitination and destruction of CDH1 in a CK1-dependent manner, thereby regulating cell migration (PubMed: [22770219](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/22464731)).

#### Cellular Location

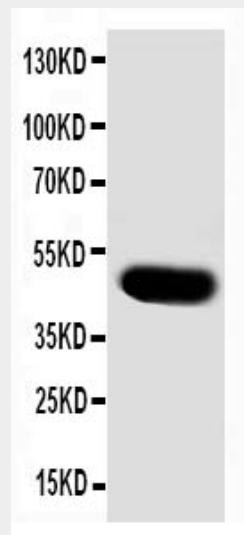
Cytoplasm. Nucleus

#### Anti-SKP2 Antibody - Protocols

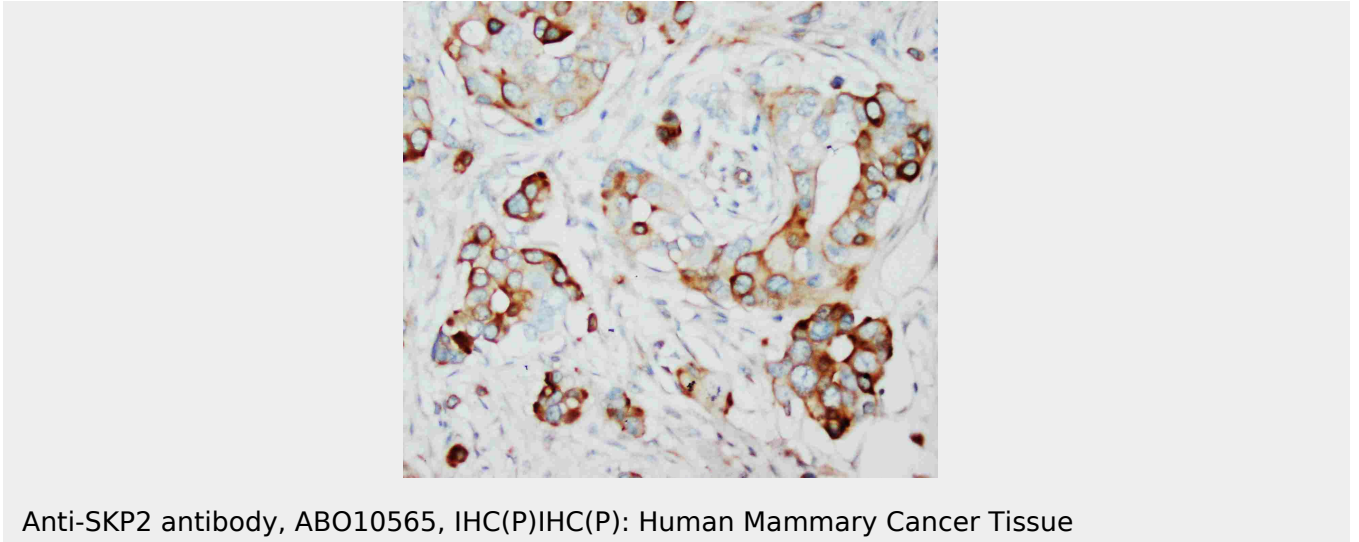
Provided below are standard protocols that you may find useful for product applications.

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

#### Anti-SKP2 Antibody - Images



Anti-SKP2 antibody, ABO10565, Western blottingWB: MCF-7 Cell Lysate



### **Anti-SKP2 Antibody - Background**

The F box protein Skp2(S-phase kinase-associated protein 2) is oncogenic, and its frequent amplification and overexpression correlate with the grade of malignancy of certain tumors. Skp2 controls p300-p53 signaling pathways in cancer cells, making it a potential molecular target for cancer therapy. This gene positively regulates the G(1)-S transition by controlling the stability of several G(1) regulators, such as the cell cycle inhibitor p27. This study provides evidence of a role for an F-box protein in oncogenesis and establishes SKP2 as a protooncogene causally involved in the pathogenesis of lymphomas.