

Anti-SKP2 Antibody

Catalog # ABO10565

Product Information

Application	WB, IHC-P
Primary Accession	Q13309
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm . Nucleus .
Source	Eukaryota
Protein Name	S-phase kinase-associated protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated

Sequence Similarities

freezing and thawing.
Contains 1 F-box domain.

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:[9736735](#), 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:[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](#)).

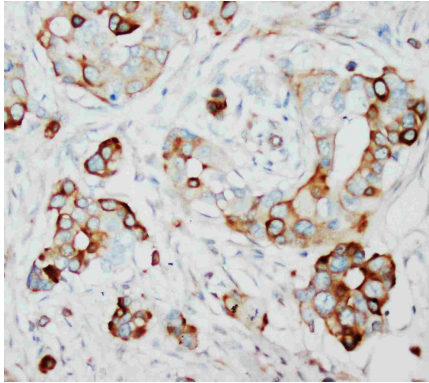
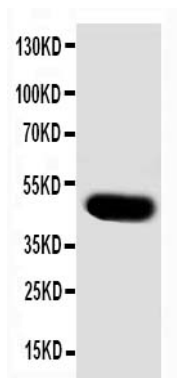
Cellular Location Cytoplasm. Nucleus

Background

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.

Images

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



Anti-SKP2 antibody, ABO10565, IHC(P)IHC(P): Human Mammary Cancer Tissue

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