

Product datasheet

Anti-SKP2 antibody ab68455

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Overview

Product name	Anti-SKP2 antibody
Description	Rabbit polyclonal to SKP2
Tested applications	Suitable for: IP, WB, IHC-P, ICC
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	A synthetic peptide corresponding to a sequence at the N terminus of human SKP2, differing from the related rat and mouse sequence by three amino acids.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab68455** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 48 kDa.
IHC-P		Use a concentration of 1 - 2 µg/ml.
ICC		Use a concentration of 1 - 2 µg/ml. Acetone fixed cells. Antigen retrieval by Pepsin and Trypsin is required.

Target

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. 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, MLL, CDK9, RAG2, FOXO1A, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2.

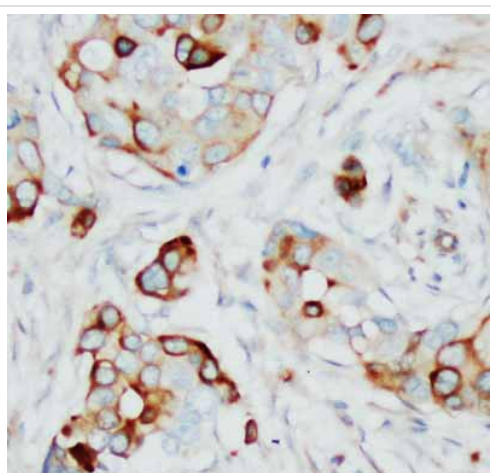
Pathway

Protein modification; protein ubiquitination.

Sequence similarities

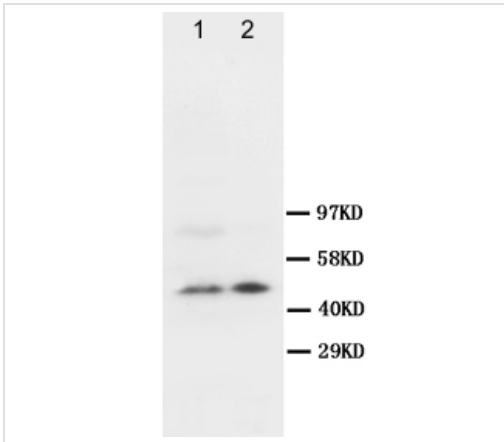
Contains 1 F-box domain.
Contains 9 LRR (leucine-rich) repeats.

Images



ab68455 at 1 µg/ml staining SKP2 in Human mammary cancer tissue sections by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections). The tissue underwent enzymatic antigen retrieval in pepsin and trypsin. A Biotin-conjugated Goat anti-rabbit IgG was used as secondary at 1/200 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SKP2 antibody (ab68455)



Western blot - Anti-SKP2 antibody (ab68455)

All lanes : Anti-SKP2 antibody (ab68455) at 1 μ g/ml

Lane 1 : Whole cell lysates prepared from HeLa cells

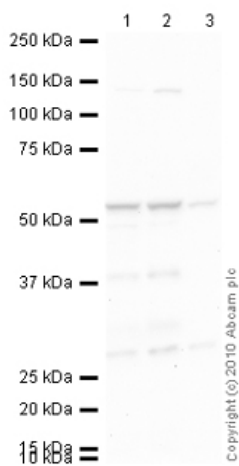
Lane 2 : Whole cell lysates prepared from 6T-CEM cells

Lysates/proteins at 50 μ g per lane.

Secondary

HRP conjugated Goat anti-rabbit IgG at 1/3000 dilution

Predicted band size : 48 kDa



Western blot - Anti-SKP2 antibody (ab68455)

All lanes : Anti-SKP2 antibody (ab68455) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 3 : Human placenta tissue lysate - total protein ([ab29745](#))

Lysates/proteins at 10 µg per lane.

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique

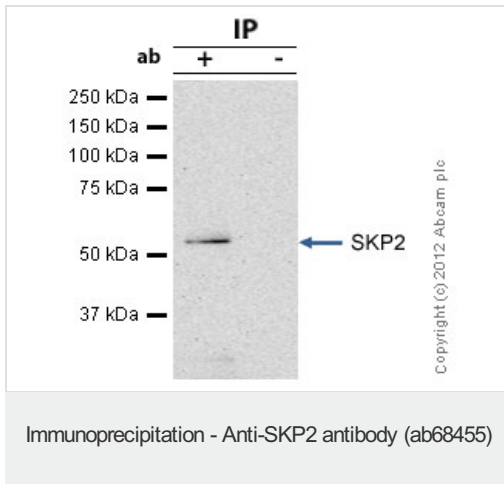
Performed under reducing conditions.

Predicted band size : 48 kDa

Observed band size : 53 kDa

Additional bands at : 29 kDa, 38 kDa. We are unsure as to the identity of these extra bands.

Exposure time : 1 minute The predicted molecular weight of SKP2 is 48 kDa (SwissProt), however we expect to observe a banding pattern at 53 kDa. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



SKP2 was immunoprecipitated using 0.5mg HeLa whole cell extract, 5µg of Rabbit polyclonal to SKP2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, HeLa whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab68455.

Secondary: Mouse monoclonal [SB62a]

Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

Band: 53kDa; SKP2

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