


Product datasheet

Anti-SKP2 antibody ab19877

KO VALIDATED

★★★★★ 2 Abreviews 5 References 3 Images

Overview

Product name	Anti-SKP2 antibody
Description	Rabbit polyclonal to SKP2
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Dog 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human SKP2. Read Abcam's proprietary immunogen policy (Peptide available as ab26153 .)
Positive control	Recombinant Human SKP2 protein (ab114385) can be used as a positive control in WB. Human heart tissue lysate This antibody gave a positive signal in the following formaldehyde fixed cell line: HeLa

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab19877** 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
ICC/IF		Use a concentration of 5 µg/ml.
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 46 kDa (predicted molecular weight: 48 kDa).

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.

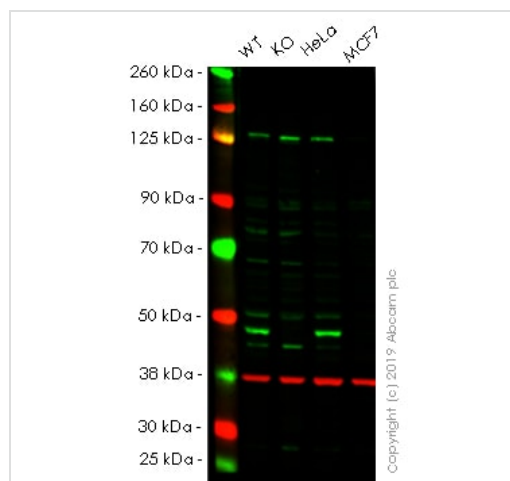
Pathway

Protein modification; protein ubiquitination.

Sequence similarities

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

Images



Western blot - Anti-SKP2 antibody (ab19877)

All lanes : Anti-SKP2 antibody (ab19877) at 1 µg/ml

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : SKP2 knockout HAP1 whole cell lysate

Lane 3 : HeLa whole cell lysate

Lane 4 : MCF7 whole cell lysate

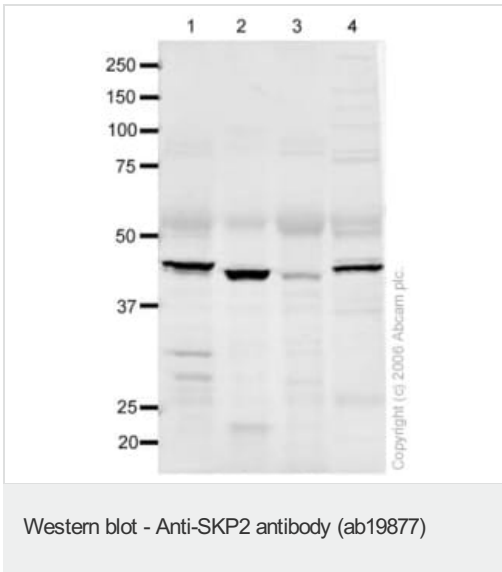
Lysates/proteins at 20 µg per lane.

Predicted band size: 48 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab19877 observed at 52 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab19877 was shown to recognize in wild-type HAP1 cells as signal was lost at the expected MW in SKP2 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout

cells. Wild-type and SKP2 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% NF Milk. Ab19877 and [ab8245](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-SKP2 antibody (ab19877) at 1 µg/ml

Lane 1 : Human heart tissue lysate

Lane 2 : Human brain tissue lysate

Lane 3 : Human kidney normal tissue lysate

Lane 4 : Human testis tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG (Alexa Fluor® 680) at 1/10000 dilution

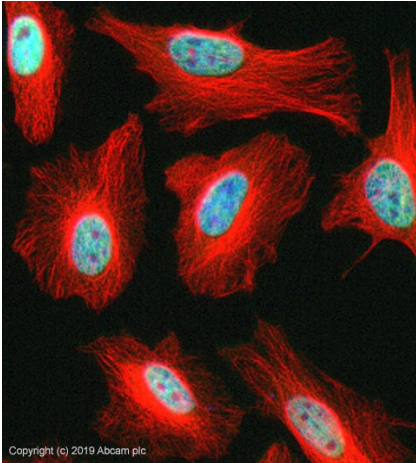
Performed under reducing conditions.

Predicted band size: 48 kDa

Observed band size: 46 kDa

[why is the actual band size different from the predicted?](#)

ab19877 detects a band at approximately 46 kDa that corresponds in size to that predicted for SKP2 (48 kDa). This band is detected in several tissue lysates. This antibody was tested in normal liver tissue lysates, but no band was detected.



Immunocytochemistry/ Immunofluorescence - Anti-SKP2 antibody (ab19877)

ab19877 stained in HeLa cells. Cells were fixed with 4% paraformaldehyde (10 min) at room temperature and incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% Triton for 1h at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab19877 at 5µg/ml and ab7291 (Mouse monoclonal to alpha Tubulin - Loading Control) used at a 1/1000 dilution overnight at +4°C. The secondary antibodies were ab150081, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed, (pseudo-colored green) and ab150120, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594) preadsorbed, (colored red), both used at a 1/1000 dilution for 1 hour at room temperature. DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43 µM for 1 hour at room temperature.

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