

## Product datasheet

# Anti-SKP2 antibody [EPR3305(2)] ab183039

**KO VALIDATED** Recombinant RabMAB

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### Overview

<b>Product name</b>	Anti-SKP2 antibody [EPR3305(2)]
<b>Description</b>	Rabbit monoclonal [EPR3305(2)] to SKP2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: C6, NIH/3T3, F9, A549, MDA-MB-231, Jurkat, MCF7, HepG2, and NCCIT cell lysates. ICC: 293T cells
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3305(2)
<b>Isotype</b>	IgG

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183039 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
Flow Cyt (Intra)		1/70. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/100.
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/200. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).

## Target

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### 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

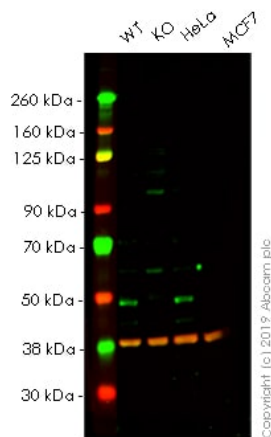
Protein modification; protein ubiquitination.

### Sequence similarities

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

## Images

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Western blot - Anti-SKP2 antibody [EPR3305(2)] (ab183039)

**All lanes** : Anti-SKP2 antibody [EPR3305(2)] (ab183039) at 1/200 dilution

**Lane 1** : Wild-type HAP1 whole cell lysate

**Lane 2** : SKP2 knockout HAP1 whole cell lysate

**Lane 3** : HeLa whole cell lysate

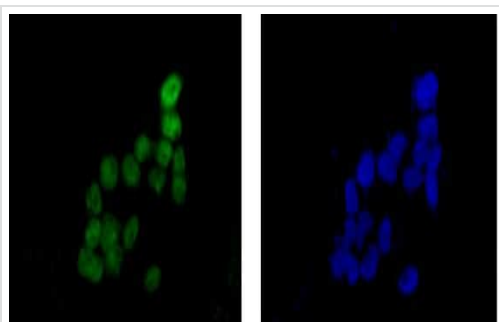
**Lane 4** : MCF7 whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 48 kDa

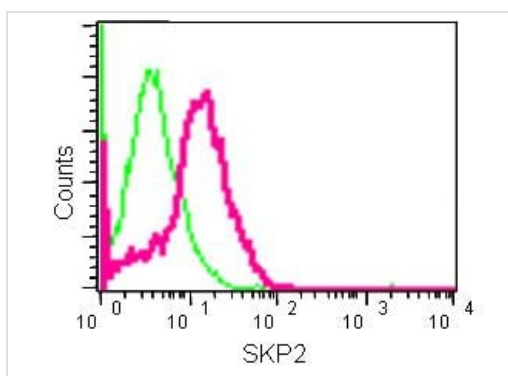
**Lanes 1 - 4:** Merged signal (red and green). Green - ab183039 observed at 52 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab183039 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. Ab183039 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/200 dilution 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.



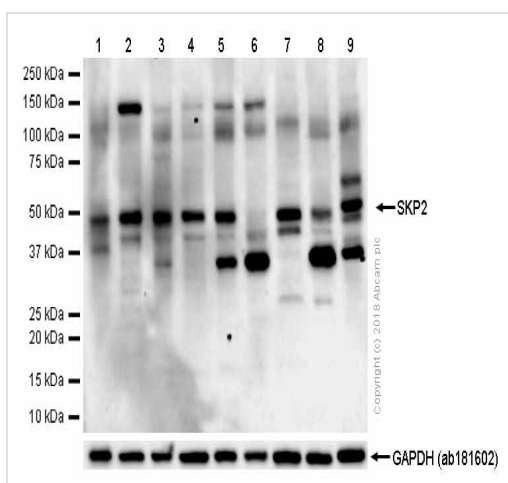
Immunocytochemistry/ Immunofluorescence - Anti-SKP2 antibody [EPR3305(2)] (ab183039)

Immunofluorescent analysis of 4% paraformaldehyde fixed 293T cells labeling SKP2 with ab183039 at 1/100 followed by Goat anti rabbit IgG(Alexa Fluor® 488) at 1/200 (green). Cells were counter stained with Dapi (blue).



Flow Cytometry (Intracellular) - Anti-SKP2 antibody [EPR3305(2)] (ab183039)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed HeLa cells labeling SKP2 with ab183039 at 1/70 followed by Goat anti rabbit IgG (FITC) at 1/150. Rabbit monoclonal IgG was used as isotype control.



Western blot - Anti-SKP2 antibody [EPR3305(2)] (ab183039)

**All lanes :** Anti-SKP2 antibody [EPR3305(2)] (ab183039) at 1/200 dilution

**Lane 1 :** NCCIT (Human pluripotent embryonic carcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 2 :** HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 3 :** MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 4 :** Jurkat (Human T cell leukemia T lymphocyte) whole cell lysates with 5% NFDN/TBST

**Lane 5 :** MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 6 :** A549 (Human lung carcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 7 :** F9 (Mouse embryonic carcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

**Lane 8** : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates with 5% NFDM/TBST

**Lane 9** : C6 (Rat glial tumor glial cell) whole cell lysate with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

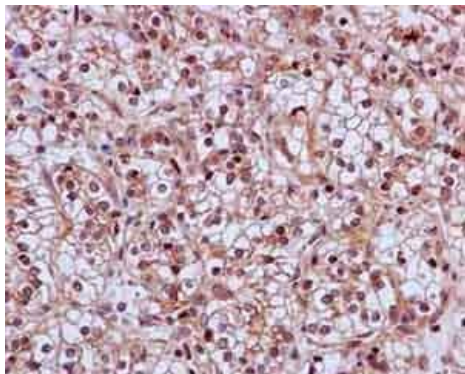
### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 48 kDa

**Exposure time:** 180 seconds

We recommend to increase the amount of samples or decrease antibody dilution to get clear bands.



immunohistochemical analysis of paraffin embedded Human kidney clear cell carcinoma tissue labeling SKP2 with [ab183039](#) at 1/50 followed by secondary staining with Ready to use HRP Polymer for Rabbit IgG and counterstained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SKP2 antibody [EPR3305(2)] ([ab183039](#))

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-SKP2 antibody [EPR3305(2)] (ab183039)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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