

## Product datasheet

# Anti-SOCS2 antibody [EPR2588(2)] ab109245

Recombinant RabMAb

5 Images

### Overview

<b>Product name</b>	Anti-SOCS2 antibody [EPR2588(2)]
<b>Description</b>	Rabbit monoclonal [EPR2588(2)] to SOCS2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC, WB, IP, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat
<b>Immunogen</b>	Synthetic peptide within Human SOCS2 aa 1-100 (N terminal). The exact sequence is proprietary.
<b>Positive control</b>	WB: NCCIT and K-562 whole cell lysates; IP: K-562 whole cell lysate; Flow Cyt: HeLa cells; ICC: MCF7 cells.
<b>General notes</b>	

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

**We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.**

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and

species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<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. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.1% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR2588(2)
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab109245** 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		1/100 - 1/250.
WB		1/1000 - 1/10000. Predicted molecular weight: 22 kDa.
IP		1/10 - 1/100.
Flow Cyt		1/150.

## Target

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**Function** SOCS family proteins form part of a classical negative feedback system that regulates cytokine

signal transduction. SOCS2 appears to be a negative regulator in the growth hormone/IGF1 signaling pathway. Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

**Tissue specificity**

High expression in heart, placenta, lung, kidney and prostate.

**Pathway**

Protein modification; protein ubiquitination.

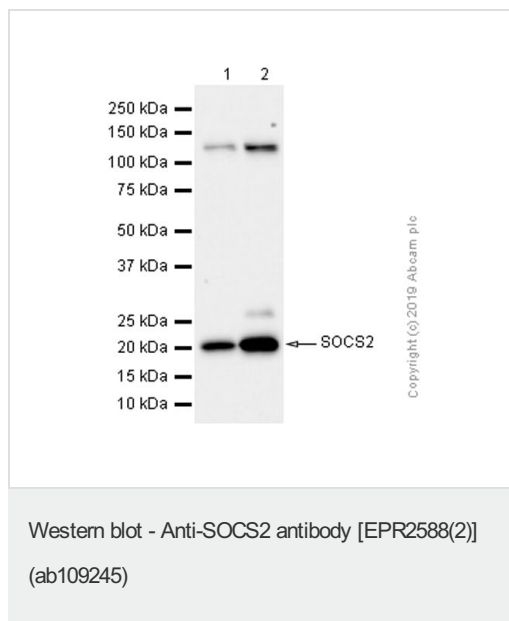
**Sequence similarities**

Contains 1 SH2 domain.  
Contains 1 SOCS box domain.

**Domain**

The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes.

**Images**



**All lanes :** Anti-SOCS2 antibody [EPR2588(2)] (ab109245) at 1/2000 dilution (purified)

**Lane 1 :** NCCIT (Human pluripotent embryonic carcinoma epithelial cell) whole cell lysate

**Lane 2 :** K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

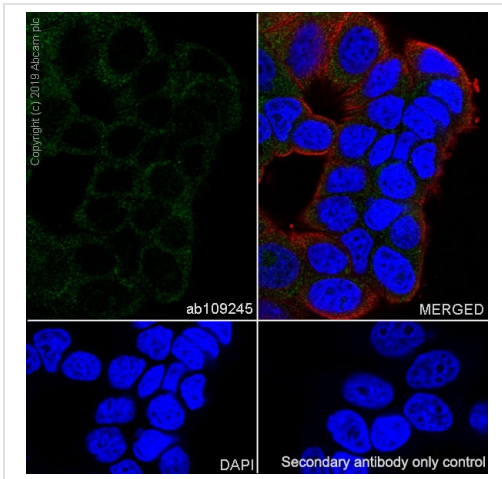
Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

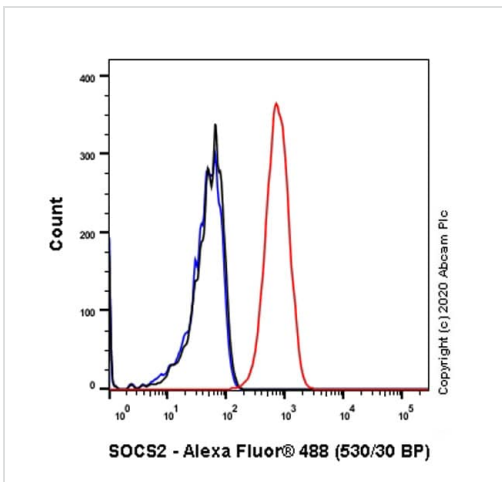
**Predicted band size:** 22 kDa

**Observed band size:** 22 kDa



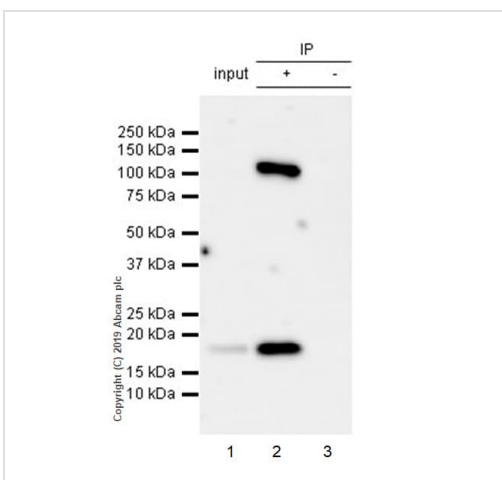
Immunocytochemistry - Anti-SOCS2 antibody  
[EPR2588(2)] (ab109245)

Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling SOCS2 with purified ab109245 at 1/100 dilution (10 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% TritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry - Anti-SOCS2 antibody  
[EPR2588(2)] (ab109245)

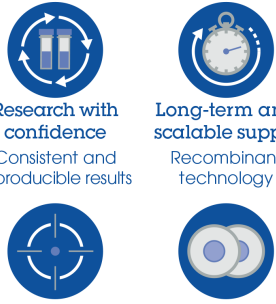
Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling SOCS2 with purified ab109245 at 1/150 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunoprecipitation - Anti-SOCS2 antibody  
[EPR2588(2)] (ab109245)

Purified ab109245 at 1/70 dilution (2 µg) immunoprecipitating SOCS2 in K-562 whole cell lysate.  
Lane 1 (input): K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 µg  
Lane 2 (+): ab109245 + K-562 whole cell lysate.  
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab109245 in K-562 whole cell lysate.  
VeriBlot for IP Detection Reagent (HRP) (ab131366) (1/1000 dilution) was used for Western blotting.  
Blocking Buffer and concentration: 5% NFDm/TBST.  
Diluting buffer and concentration: 5% NFDm/TBST.  
Observed band size: 22 kDa

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-SOCS2 antibody [EPR2588(2)] (ab109245)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

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