abcam

Product datasheet

Anti-SOCS7 antibody ab224589

4 References   2 Images

Overview

Product name	Anti-SOCS7 antibody
Description	Rabbit polyclonal to SOCS7
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Recombinant fragment corresponding to Human SOCS7 aa 6-165. Database link: **O14512**
Positive control	WB: MCF7, HeLa, Jurkat and U-87 MG cell lysate; rat heart and liver tissue lysate. ICC/IF: HepG2 cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: 40% Glycerol (glycerin, glycerine), PBS, 0.03% Proclin 300
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab224589 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		1/50 - 1/200.
WB		1/500 - 1/5000. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).

Target

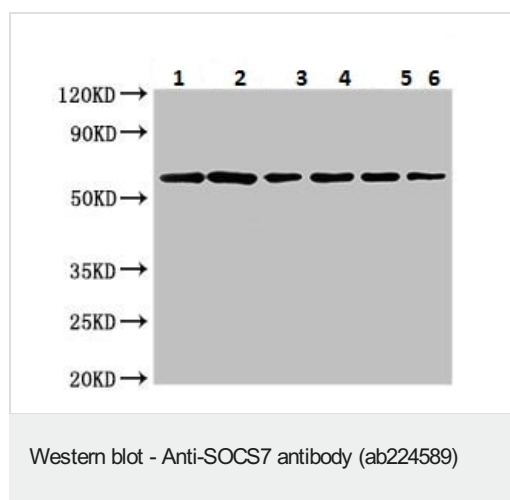|	
Function	Regulates signaling cascades probably through protein ubiquitination and/or sequestration. Functions in insulin signaling and glucose homeostasis through IRS1 ubiquitination and subsequent proteasomal degradation. Inhibits also prolactin, growth hormone and leptin signaling by preventing STAT3 and STAT5 activation, sequestering them in the cytoplasm and reducing their binding to DNA. May be a substrate recognition component of a SCF-like E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.
Tissue specificity	Expressed in brain and leukocytes. Also in fetal lung fibroblasts and fetal brain.
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 (By similarity). It is required for IRS1 ubiquitination and subsequent proteasomal degradation.
Cellular localization	Cytoplasm. Cell membrane. Nucleus. Mostly cytoplasmic, but shuttles between the cytoplasm and the nucleus. Rapidly relocalizes to the nucleus after UV irradiation. Cytoplasmic location depends upon SEPT7 presence.

Images

Western blot - Anti-SOCS7 antibody (ab224589)

All lanes : Anti-SOCS7 antibody (ab224589) at 1/500 dilution

Lane 1 : MCF7 (human breast adenocarcinoma cell line) cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) cell lysate

Lane 4 : U-87 MG (human glioblastoma-astrocytoma epithelial cell line) cell lysate
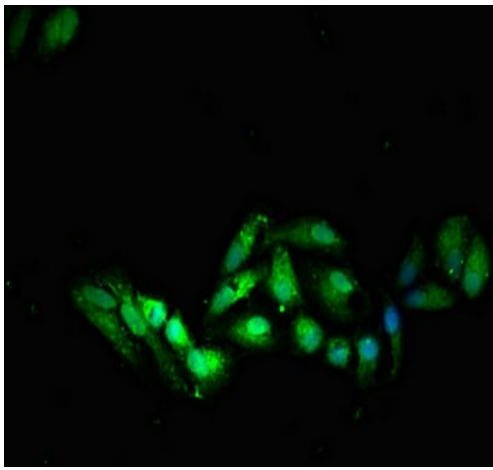
Lane 5 : Rat heart tissue lysate

Lane 6 : Rat liver tissue lysate

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 63 kDa
Observed band size: 63 kDa

Immunocytochemistry/ Immunofluorescence - Anti-
SOCS7 antibody (ab224589)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained
for SOCS7 (green) using ab224589 at 1/100 dilution in ICC/IF.

Our Abpromise to you: Quality guaranteed and expert technical support

- 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

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