


### Anti-SOCS3 antibody ab16030

★★★★★ [31 Abreviews](#) [124 References](#) [3 图像](#)

#### 概述

产品名称	Anti-SOCS3抗体
描述	兔多克隆抗体to SOCS3
宿主	Rabbit
经测试应用	适用于: WB, ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Chicken, Cow, Dog 
免疫原	Synthetic peptide corresponding to Human SOCS3 aa 200 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab16199</a> )
常规说明	<p>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.</p> <p>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&amp;As</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	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.
纯度	Immunogen affinity purified
克隆	多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab16030于以下的经测试应用

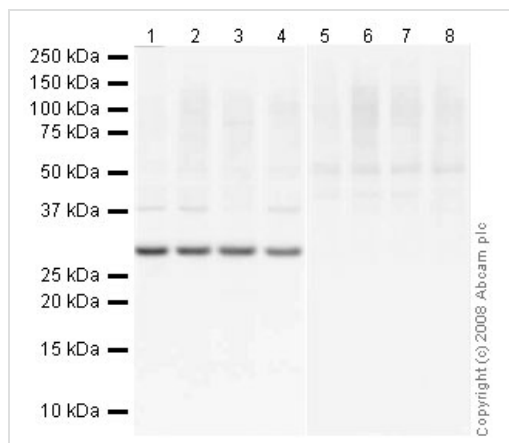
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (9)	Use at an assay dependent concentration. Predicted molecular weight: 24 kDa.
ICC/IF	★★★★☆ (2)	Use a concentration of 1 µg/ml.

靶标

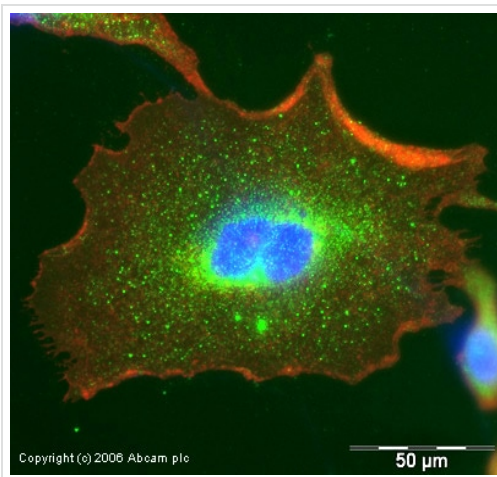
功能	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity. Suppresses fetal liver erythropoiesis. Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells. Regulates IL-6 signaling in vivo (By similarity). 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. Seems to recognize IL6ST.
组织特异性	Widely expressed with high expression in heart, placenta, skeletal muscle, peripheral blood leukocytes, fetal and adult lung, and fetal liver and kidney. Lower levels in thymus.
通路	Protein modification; protein ubiquitination.
疾病相关	Note=There is some evidence that SOCS3 may be a susceptibility gene for atopic dermatitis linked to 17q25. SOCS3 messenger RNA is significantly more highly expressed in skin from patients with atopic dermatitis than in skin from healthy controls. Furthermore, a genetic association between atopic dermatitis and a haplotype in the SOCS3 gene has been found in two independent groups of patients.
序列相似性	Contains 1 SH2 domain. Contains 1 SOCS box domain.
结构域	The ESS and SH2 domains are required for JAK phosphotyrosine binding. Further interaction with the KIR domain is necessary for signal and kinase inhibition. The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes.
翻译后修饰	Phosphorylated on tyrosine residues after stimulation by the cytokines, IL-2, EPO or IGF1.

图片



Western blot - Anti-SOCS3 antibody (ab16030)

The 30kDa band observed is comparable to the molecular weight seen with other commercially available antibodies to SOCS3.



Immunocytochemistry/ Immunofluorescence - Anti-SOCS3 antibody (ab16030)

ICC/IF image of ab16030 stained human HeLa cells. The cells were PFA fixed (10 min) and incubated with the antibody (ab16030, 1 µg/ml) for 1h at room temperature. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Image-iT™ FX Signal Enhancer was used as the primary blocking agent, 5% BSA (TBS-T) was used for all other blocking steps. DAPI was used to stain the cell nuclei (blue). Alexa Fluor® 594 WGA was used to label plasma membranes (red).



Western blot - Anti-SOCS3 antibody (ab16030)

This image is courtesy of an anonymous Abreview

**All lanes :** Anti-SOCS3 antibody (ab16030) at 1 µg/ml

**Lane 1 :** Untreated Human peripheral blood mononuclear cell lysate

**Lane 2 :** Human peripheral blood mononuclear cell lysate (treated with aCD3/28)

**Lane 3 :** Human peripheral blood mononuclear cell lysate (treated with IFN $\gamma$ )

**Lane 4 :** SOCS3 protein

Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes :** HRP-conjugated goat anti-rabbit polyclonal IgG at 1/2000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 24 kDa

**Observed band size:** 25 kDa

**Exposure time:** 15 minutes

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

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