




# Anti-SOCS3 antibody [OTI3D3] ab236519

[1 References](#) [6 图像](#)

### 概述

<b>产品名称</b>	Anti-SOCS3抗体[OTI3D3]
<b>描述</b>	小鼠单克隆抗体[OTI3D3] to SOCS3
<b>宿主</b>	Mouse
<b>经测试应用</b>	<b>适用于:</b> WB, IHC-P, ICC/IF, Flow Cyt (Intra)
<b>种属反应性</b>	<b>与反应:</b> Human, Recombinant fragment <b>预测可用于:</b> Mouse, Rat, Dog 
<b>免疫原</b>	Recombinant full length protein corresponding to Human SOCS3 aa 1 to the C-terminus. Produced in HEK-293T cells (NP_003946). Database link: <a href="#">O14543</a>
<b>阳性对照</b>	<div style="text-align: right;">  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div> WB: pCMV6-ENTRY SOCS3 cDNA transfected HEK-293T cell lysate. IHC-P: Human colon adenocarcinoma and thyroid carcinoma tissues. ICC/IF: COS-7 cells transiently transfected by pCMV6-ENTRY SOCS3 cDNA. Flow Cyt (Intra): HeLa and Jurkat cells.
<b>常规说明</b>	Clone OTI3D3 (formerly 3D3).  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

### 性能

<b>形式</b>	Liquid
<b>存放说明</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>存储溶液</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA, 50% Glycerol
<b>纯度</b>	Affinity purified

纯化说明	Purified from cell culture supernatant.
克隆	单克隆
克隆编号	OTI3D3
同种型	IgG2a

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab236519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		1/2000. Predicted molecular weight: 24 kDa.
IHC-P		1/150. Perform heat-induced epitope retrieval by 10 mM citric buffer, pH 6.0, 100°C for 10 minutes.
ICC/IF		1/100.
Flow Cyt (Intra)		1/100.

## 靶标

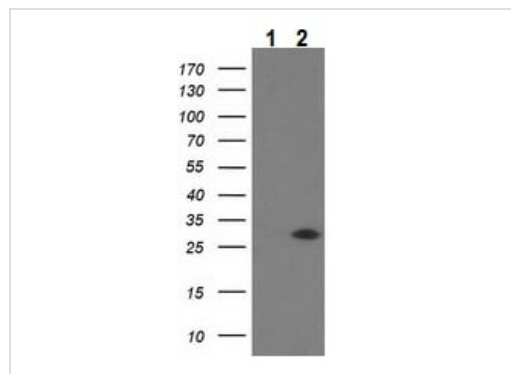
功能	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including 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 [OTI3D3] (ab236519)

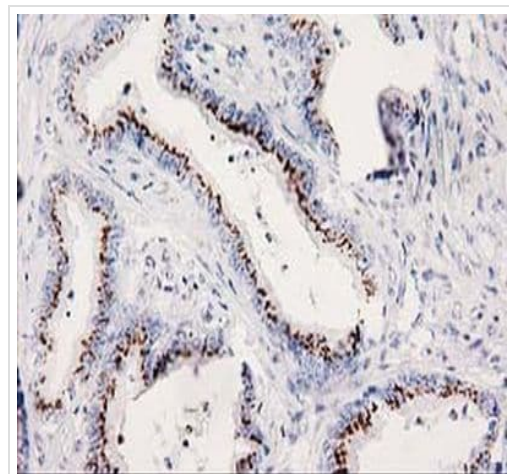
**All lanes** : Anti-SOCS3 antibody [OTI3D3] (ab236519) at 1/2000 dilution

**Lane 1** : pCMV6-ENTRY control cDNA transfected HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

**Lane 2** : pCMV6-ENTRY SOCS3 cDNA transfected HEK-293T cell lysate

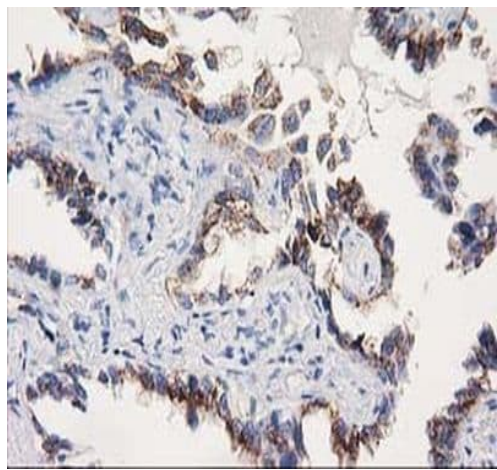
Lysates/proteins at 5  $\mu$ g per lane.

**Predicted band size:** 24 kDa



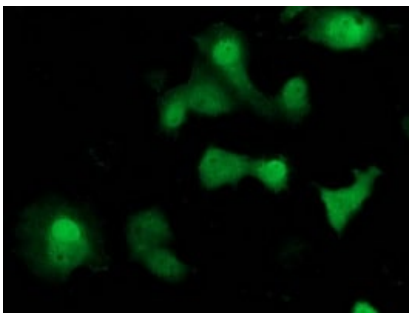
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS3 antibody [OTI3D3] (ab236519)

Paraffin-embedded human colon adenocarcinoma tissue stained for SOCS3 using ab236519 at 1/150 dilution in immunohistochemical analysis.



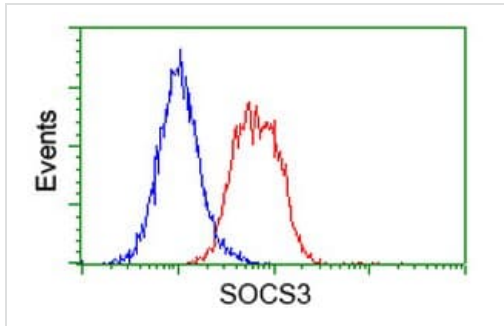
Paraffin-embedded human thyroid carcinoma tissue stained for SOCS3 using ab236519 at 1/150 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS3 antibody [OTI3D3] (ab236519)



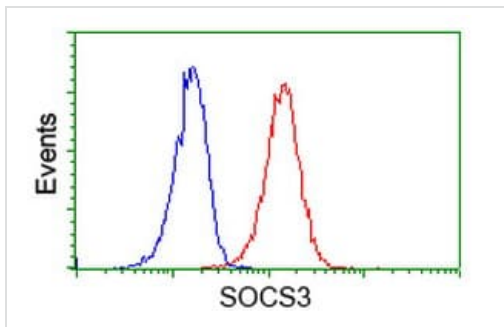
COS-7 (African green monkey kidney fibroblast-like cell line) cells transiently transfected by pCMV6-ENTRY SOCS3 cDNA stained for SOCS3 (green) using ab236519 at 1/100 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-SOCS3 antibody [OTI3D3] (ab236519)



Flow Cytometry (Intracellular) - Anti-SOCS3 antibody [OTI3D3] (ab236519)

Flow cytometric analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cell line labeling SOCS3 with ab236519 at 1/100 dilution (red) compared to a non-specific negative control antibody (blue).



Flow Cytometry (Intracellular) - Anti-SOCS3 antibody [OTI3D3] (ab236519)

Flow cytometric analysis of Jurkat (Human T cell leukemia cell line from peripheral blood) cell line labeling SOCS3 with ab236519 at 1/100 dilution (red) compared to a non-specific negative control antibody (blue).

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