

Product datasheet

Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free ab273652

[6 Images](#)

Overview

Product name	Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free
Description	Mouse monoclonal [OTI3D3] to SOCS3 - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: Flow Cyt (Intra), Flow Cyt, WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human, African green monkey
Immunogen	Recombinant full length protein corresponding to Human SOCS3 aa 1-250. Database link: O14543 <div style="display: flex; justify-content: space-around;">  Run BLAST with  Run BLAST with </div>
Positive control	WB: Transfected HEK-293T cell lysate; IHC-P: human colon adenocarcinoma, thyroid carcinoma tissue; IF: Transfected COS7 whole cells; Flow Cyt (Intra): HeLa and Jurkat whole cells.
General notes	<p>ab273652 is the carrier-free version of ab236519.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <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&As</p>

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: 7.3 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	OTI3D3
Isotype	IgG2a

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab273652 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)		1/100.
Flow Cyt		1/100.
WB		1/2000. Predicted molecular weight: 24 kDa.
IHC-P		1/150. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100.

Target

Function	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.
Tissue specificity	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.
Pathway	Protein modification; protein ubiquitination.
Involvement in disease	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.

Sequence similarities

Contains 1 SH2 domain.
Contains 1 SOCS box domain.

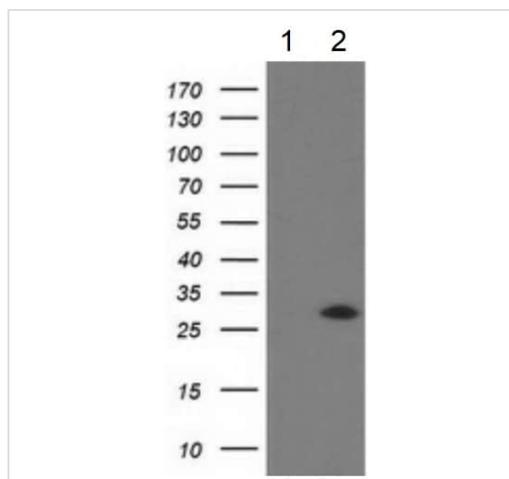
Domain

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.

Post-translational modifications

Phosphorylated on tyrosine residues after stimulation by the cytokines, IL-2, EPO or IGF1.

Images



Western blot - Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652)

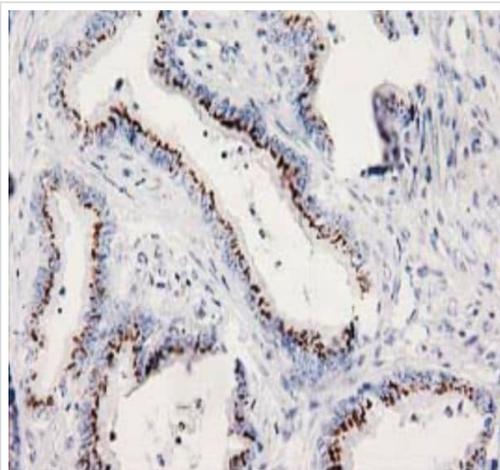
All lanes : Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652) at 1/2000 dilution

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

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

Lysates/proteins at 5 µg per lane.

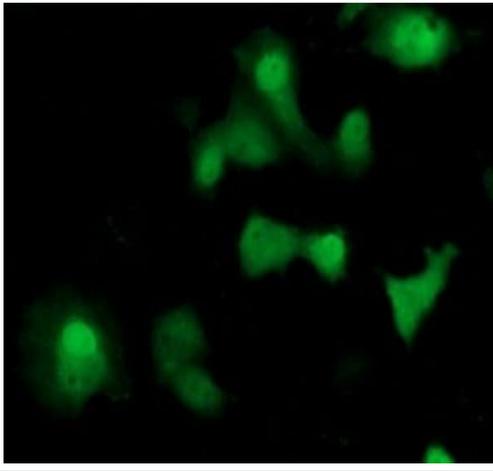
Predicted band size: 24 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652)

Immunohistochemical analysis of paraffin-embedded human colon adenocarcinoma tissue staining SOCS3 with [ab236519](#) at 1/150 dilution.

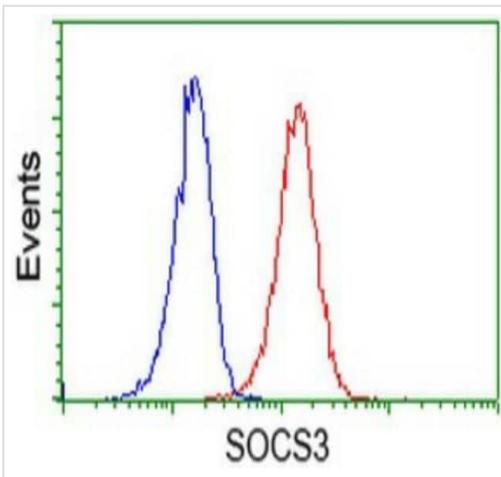
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab236519](#)).



Immunocytochemistry/ Immunofluorescence - Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652)

Immunofluorescence analysis of COS-7 (african green monkey kidney fibroblast-like cell line) whole cells labeling SOCS3 with [ab236519](#) at 1/100 dilution.

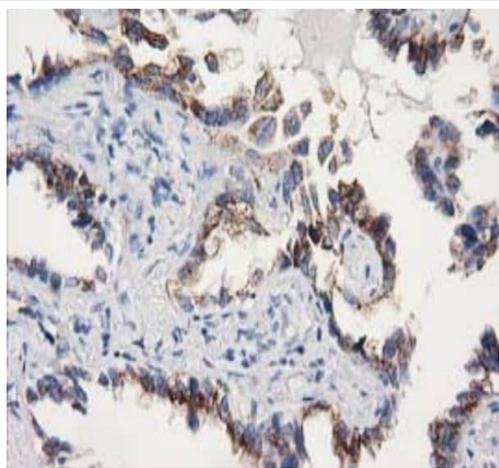
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab236519](#)).



Flow Cytometry (Intracellular) - Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652)

Flow cytometric analysis of Jurkat (human T cell leukemia cell line from peripheral blood) whole cell using [ab236519](#) (Red) at 1/100 dilution, compared to a nonspecific negative control antibody, (Blue).

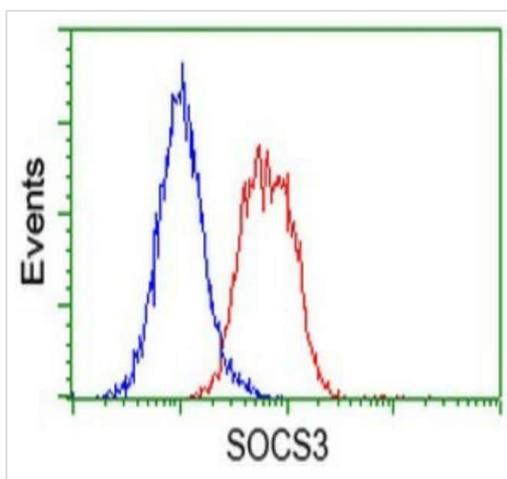
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab236519](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652)

Immunohistochemical analysis of paraffin-embedded human thyroid carcinoma tissue staining SOCS3 with [ab236519](#) at 1/150 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab236519](#)).



Flow Cytometry (Intracellular) - Anti-SOCS3 antibody [OTI3D3] - BSA and Azide free (ab273652)

Flow cytometric analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell using [ab236519](#) (Red) at 1/100 dilution, compared to a nonspecific negative control antibody, (Blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab236519](#)).

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