

For Research Use Only

# CoraLite®594-conjugated SOCS3 Monoclonal antibody



Catalog Number:CL594-66797

## Basic Information

<b>Catalog Number:</b> CL594-66797	<b>GenBank Accession Number:</b> BC060858	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9021	<b>CloneNo.:</b> 1G2B12
<b>Source:</b> Mouse	<b>Full Name:</b> suppressor of cytokine signaling 3	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 25 kDa	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG5386	<b>Observed MW:</b> 25 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : mouse heart tissue,
<b>Species Specificity:</b> Human, mouse	

## Background Information

Suppressor of cytokine signaling 3 (SOCS3) is a member of SOCS family that these proteins induced to attenuate cytokine signal transduction in response to signals from a diverse range of cytokines and growth factors. SOCS3 is a negative regulatory protein that inhibits signaling induced by IL-6 via preventing JAK mediated activation of STAT3. However SOCS3 can positively regulate the ERK-MAPK pathway, inhibit the NF-kB pathway (PMID:26429311,25035930). In addition, SOCS3 brings a great impact on immune responses by inhibiting signaling stimulus, such as LPS, type I and type II IFNs, and IL-12. SOCS3 is widely expressed in heart, placenta, skeletal muscle, peripheral blood leukocytes, fetal and adult lung, and fetal liver and kidney (PMID: 22961088). Dysregulation of SOCS3 functions can cause a variety of diseases, including allergy, autoimmune diseases, inflammation and cancer (PMID:26429311).

## Storage

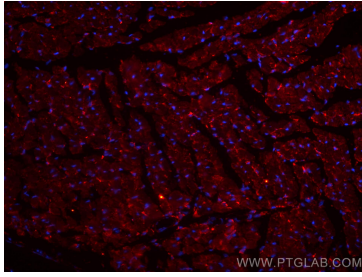
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

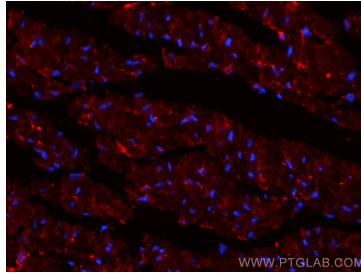
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

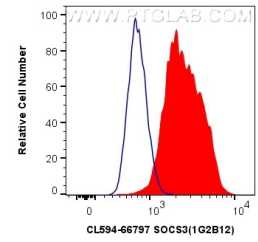
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using CoraLite@594 SOCS3 antibody (CL594-66797, Clone: 1G2B12) at dilution of 1:200.



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$1 \times 10^6$  Jurkat cells were intracellularly stained with 0.4  $\mu$ g CoraLite@594 Anti-Human SOCS3 (CL594-66797, Clone:1G2B12) (red), or 0.4  $\mu$ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).