

For Research Use Only

# SOCS3 Monoclonal antibody

Catalog Number: 66797-1-Ig

Featured Product

17 Publications



## Basic Information

Catalog Number:

66797-1-Ig

Concentration:

2000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG5386

GenBank Accession Number:

BC060858

GeneID (NCBI):

9021

UNIPROT ID:

O14543

Full Name:

suppressor of cytokine signaling 3

Calculated MW:

25 kDa

Observed MW:

25 kDa

Purification Method:

Protein A purification

CloneNo.:

1G2B12

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:250-1:1000

IF-P 1:400-1:1600

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

Human, mouse

Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : Daudi cells, Jurkat cells, HeLa cells, Ramos cells, CTLL-2 cells, pig spleen tissue

IHC : human breast cancer tissue, mouse heart tissue

IF-P : mouse heart tissue,

## 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-κB 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Agueda Ferrer-Donato	34638645	Int J Mol Sci	WB
Goutham Venkata Naga Davuluri	34552935	Front Cell Dev Biol	WB
Zhanghao Huang	35071413	Ann Transl Med	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

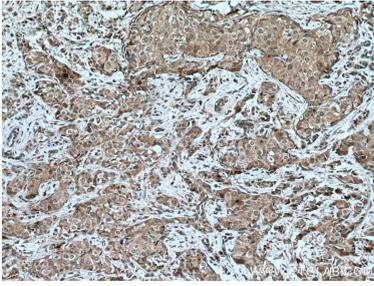
T: 4006900926

E: Proteintech-CN@ptglab.com

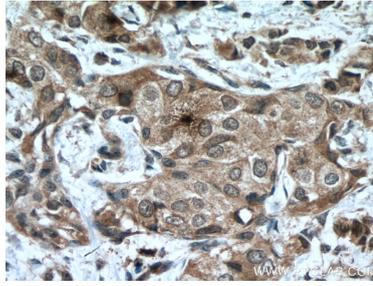
W: ptgcn.com

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

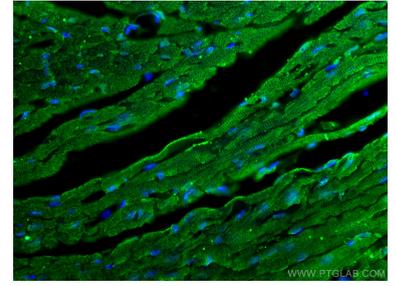
## Selected Validation Data



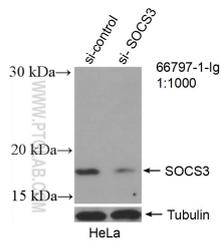
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66797-1-Ig (SOCS3 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



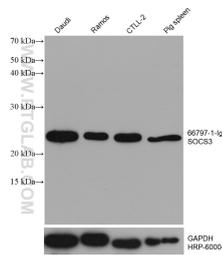
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66797-1-Ig (SOCS3 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using SOCS3 antibody (66797-1-Ig, Clone: 1G2B12) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



WB result of SOCS3 antibody (66797-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SOCS3 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 66797-1-Ig (SOCS3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.