For Research Use Only

## SOCS3 Monoclonal antibody Catalog Number:66797-1-Ig Featured Product 17 Publications



Basic Information	Catalog Number: 66797-1-lg	GenBank Accession Number: BC060858		Purification Method: Protein A purification	
	Size: 150ul , Concentration: 2000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG5386	GeneID (NCBI): 9 9021 UNIPROT ID: 0 14543 Full Name: suppressor of cyto Calculated MW: 25 kDa Observed MW: 25 kDa	kine signaling 3	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	Positive Con			
	Cited Applications: CTLI WB_IHC_IF_IP		CTLL-2 cells,	Daudi cells, Jurkat cells, HeLa cells, Ramos cells, -2 cells, pig spleen tissue	
	Species Specificity: Human, mouse		IF-P: mouse	breast cancer tissue, mouse heart tissue heart tissue,	
	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				
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).				
Notable Publications	Author Pul	bmed ID Jo	ournal	Application	
	Agueda Ferrer-Donato 340	638645 In	nt J Mol Sci	WB	
	Goutham Venkata Naga Davuluri 34	552935 Fi	ront Cell Dev Biol	WB	
	Zhanghao Huang 350	071413 A	nn Transl Med	WB	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	% glycerol pH 7.3.			
*** 20ul sizes contain 0.1% BSA	Auduoting is unnecessary for -20 C S	loidge			
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free	ta for this product please contact: E: proteintech@ptglab.com		This product is exclusively available under Proteintec Group brand and is not available to purchase from any		

W: ptglab.com

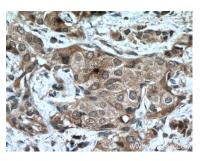
in USA), or 1(312) 455-8498 (outside USA)

other manufacturer.

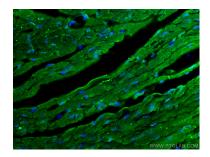
## Selected Validation Data



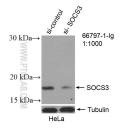
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66797-1-1g (SOCS3 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



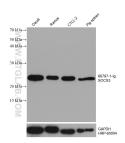
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66797-1-1g (SOCS3 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.