

Datasheet: VMA00027

Description:	MOUSE ANTI SOCS-3		
Specificity:	SOCS-3		
Other names:	Supressor of Cytokine Signaling 3		
Format:	Purified		
Product Type:	PrecisionAb Monoclonal		
Clone:	SO1		
Isotype:	lgG2b		
Quantity:	100 μΙ		

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA	•			
Immunoprecipitation			•	
Western Blotting	-			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click here to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid

Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant	
Buffer Solution	Phosphate buffered saline.	
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).	
Immunogen	Full length SOCS-3 protein	
External Database Links	UniProt:	
	O14543 Related reagents	
	Entrez Gene: 9021 SOCS3 Related reagents	
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Synonyms	CIS3, SSI3	
Specificity	Mouse anti Human SOCS-3 antibody, clone SO1 recognizes the human suppressor of cytokine signaling 3 protein, also known as SOCS-3, cytokine-inducible SH2 protein 3 or STAT-induced STAT inhibitor 3. SOCS-3 is a 225 amino acid member of the suppressor of cytokine signaling family (<u>Starr et al. 1997</u>) containing a single <u>SH2</u> and a single <u>SOCS</u> box domain. SOCS-3 acts as a negative regulator of janus kinase (JAK) and signal transducer and activators of transcription (STAT) signaling pathways.	
	SOCS-3 acts as a negative feedback regulator for the STAT3 pathways, by directly binding to the Tyr-759 motif of the IL-6 signal-transducing receptor subunit gp130, thereby preventing the IL-6 activation of STAT3.	
	The expression of SOCS-3 is inducible by numerous factors, including IL-6, IL-10, toll-like receptor (TLR) agonists and interferon (IFN) gamma, indicating roles in inflammatory diseases such as arthritis, colitis and Crohn's disease (Elliott and Johnstone 2004). SOCS-3 expression affects IFN alpha sensitivity in tumors (Brender et al. 2001).	
	Notch signaling plays a critical role in the determination of M1 versus M2 macrophage polarization. RBPJ–mediated notch signaling regulates this polarization through SOCS-3 (Narayana and Balaji 2008, Schroeder and Just 2000).	
	Mouse anti Human SOCS-3 antibody recognizes human SOCS-3 as a single band of ~25 kDa in MCF7 cell lysates by western blotting under reducing conditions. This antibody also cross reacts with SOCS-3 from murine cell lines.	
Western Blotting	Anti SOCS-3 antibody detects a band of approximately 25 kDa in MCF7 cell lysates.	
References	1. Zheng, Y. <i>et al.</i> (2019) Lidocaine Potentiates SOCS3 to Attenuate Inflammation in Microglia and Suppress Neuropathic Pain. <u>Cell Mol Neurobiol.</u> 39 (8): 1081-92.	

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Storage

Guarantee	12 months from date of despatch		
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.		
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00027 Antibody (10040)		
Regulatory	For research purposes only.		

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) HRP

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M396972:220616'

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