RD SYSTEMS a biotechne brand

Human/Mouse SOCS-3 Antibody

Monoclonal Mouse IgG_{2B} Clone # 516919 Catalog Number: MAB5696

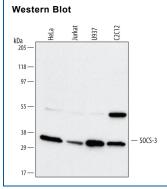
DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human or mouse SOCS-3 in Western blots.	
Source	Monoclonal Mouse IgG _{2B} Clone # 516919	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Nunogen E. coli-derived recombinant human SOCS-3 Met1-Leu225 Accession # 014543	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below

DATA



Detection of Human and Mouse SOCS-3 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, Jurkat human acute T cell leukemia cell line, 4037 human histiocytic lymphoma cell line, and C2C12 mouse myoblast cell line. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human/Mouse SOCS-3 Monoclonal Antibody (Catalog # MAB5696) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SOCS-3 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months -20 to -70 °C under sterile conditions after reconstitution. 		

BACKGROUND

Suppressor of cytokine signaling 3 (SOCS-3), also known as CIS3, is a widely expressed 30 kDa protein that inhibits signal transduction induced by multiple cytokines including Erythropoietin, IL-6, LIF, Oncostatin M, and Leptin. It binds downstream signaling molecules such as JAK kinases and targets them for ubiquitin-mediated degradation, essential in a negative feedback control loop. Human SOCS-3 shares 96% as sequence identity with mouse and rat SOCS-3.

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449