

# **Human/Mouse SOCS-4 Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 517331

Catalog Number: MAB5628

DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects endogenous human and mouse SOCS-4 in Western blots.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 517331		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human SOCS-4 Met1-Cys440 Accession # Q8WXH5		
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.		

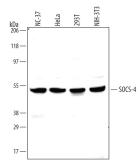
### APPLICATIONS

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/Mouse SOCS-4 by Western Blot. Western blot shows lysates of NC-37 human Burkitt's lymphoma B lymphoblast cell line, HeLa human cervical epithelial carcinoma cell line, 293T human embryonic kidney cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.1  $\mu$ g/mL of Human/Mouse SOCS-4 Monoclonal Antibody (Catalog # MAB5628) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SOCS-4 at approximately 51 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 (SD) is chipped with paler packs. 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

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- 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 4 (SOCS-4) is a 51 kDa (predicted) member of the SOCS family of proteins, which are Src homology-2 (SH2)-containing proteins originally identified as negative regulators of cytokine signaling. Human SOCS-4 is 440 amino acids (aa) in length. It contains an SH2 domain (aa 289-381) and a SOCS box domain (aa 376-425). Human SOCS-4 shares 93% and 86% aa sequence identity with bovine and mouse SOCS-4, respectively. The biological function of SOCS-4 remains poorly understood, but it has been found to be elevated in cells following treatment with EGF, acting perhaps in a feedback loop inhibiting STAT3.

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