

DESCRIPTION

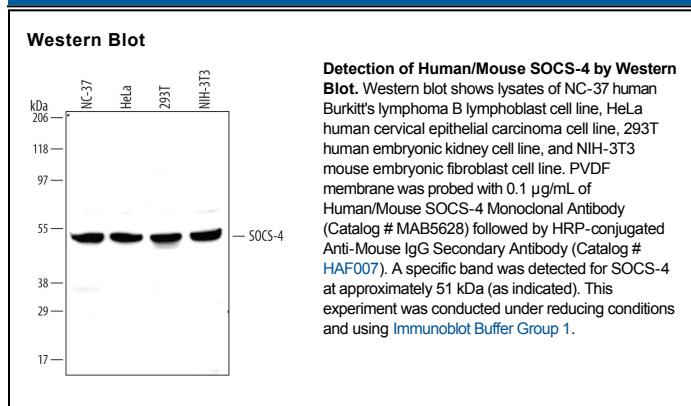
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse SOCS-4 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 517331
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SOCS-4 Met1-Cys440 Accession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



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. <ul style="list-style-type: none"> ● 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.