

Human SOCS-2 Antibody

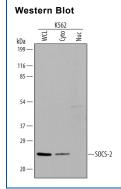
Monoclonal Mouse IgG2B Clone # 517206 Catalog Number: MAB4979

DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human SOCS-2 in direct ELISAs and Western blots.			
Source	Monoclonal Mouse IgG _{2B} Clone # 517206			
Purification	Protein A or G purified from hybridoma culture supernatant			
Immunogen	E. coli-derived recombinant human SOCS-2 Met1-Gln197 (predicted) Accession # O14508			
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.			

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	0.2 μg/mL	See Below

DATA



Detection of Human SOCS-2 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line. Gels were loaded with 30 μg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 0.2 μg/mL Mouse Anti-Human SOCS-2 Monoclonal Antibody (Catalog # MAB4979) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007). A specific band for SOCS-2 was detected at approximately 23-25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREP	AKAI	ION AN	אופ עוו	JRAGE

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

SOCS-2 (Suppressor of cytokine signaling 2; also CIS-2 and SSI-2) is a 25 kDa member of the SOCS family of proteins. It is an SH2-domain containing cytoplasmic adaptor protein expressed by multiple cell types. It blocks receptor signaling by binding to phosphorylated tyrosines in the cytoplasmic domain of select receptors, including the receptors for leptin, IGF-I and GH. Human SOCS-2 is 198 amino acids (aa) in length. It contains one SH2 domain (aa 48-156) and a SOCS box (aa 160-198) that mediates interaction with elongin B or C of the E3 ubiquitin ligase complex. There is one splice variant that shows an Arg-rich eight as substitution for as 31-39. Full-length SOCS-2 is 94% and 96% aa identical to mouse and porcine SOCS-2, respectively.

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