

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SOCS-6 in direct ELISA and Western blot.
Source	Monoclonal Mouse IgG _{2B} Clone # 519006
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SOCS-6 Met1-Tyr535 Accession # O14544
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.

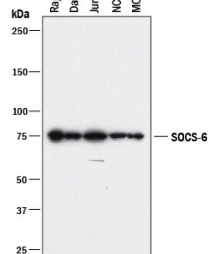
APPLICATIONS

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	1 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

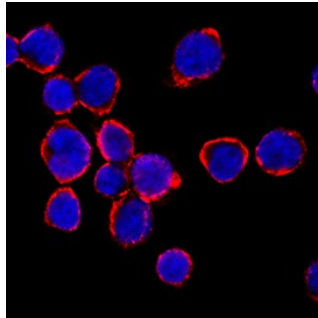
DATA

Western Blot



Detection of Human SOCS-6 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, Daudi human Burkitt's lymphoma cell line, Jurkat human acute T cell leukemia cell line, NC-37 human Burkitt's lymphoma B lymphoblast cell line, and MOLT-4 human acute lymphoblastic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human SOCS-6 Monoclonal Antibody (Catalog # MAB5808) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for SOCS-6 at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



SOCS-6 in Jurkat Human Cell Line. SOCS-6 was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Mouse Anti-Human SOCS-6 Monoclonal Antibody (Catalog # MAB5808) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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

SOCS-6 (suppressor of cytokine signaling 6; also CIS-4) is an ~60 kDa member of the SOCS family of proteins. SOCS-6 can be found in either the cytoplasm or nucleus of hematopoietic progenitors. The 535 amino acid (aa) human SOCS-6 contains one SH2 domain (aa 384-491) and a SOCS box (aa 486-535), which recruits E3 ubiquitin ligase complexes. It is reported to antagonize IRS-4, PI3K p85, STAT3, and other SOCS proteins, probably by promoting their degradation. SOCS-6 shares 84% and 82% aa identity with mouse and rat SOCS-6, respectively. An isoform of 418 aa diverges after aa 404.