

DESCRIPTION

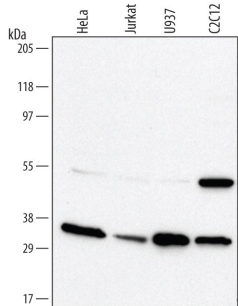
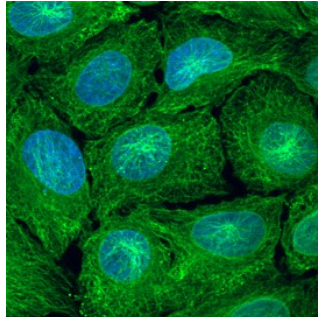
Species Reactivity	Human/Mouse
Specificity	Detects human or mouse SOCS-3 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 516919
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SOCS-3 Met1-Leu225 Accession # O14543
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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>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, U937 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.</p>	<p>Immunocytochemistry</p>  <p>SOCS-3 in U2OS Human Cell Line. SOCS-3 was detected in immersion fixed U2OS human osteosarcoma cell line using Mouse Anti-Human/Mouse SOCS-3 Monoclonal Antibody (Catalog # MAB5696) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Mouse IgG Secondary Antibody (green; Catalog # NL009) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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 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% aa sequence identity with mouse and rat SOCS-3.