



Polyclonal Anti-Suppressor of cytokine signaling 1, SOCS1 (Sepharose Bead Conjugate)

Catalogue No. PA1074-S

Lot No. 03A02

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity
with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human SOCS1, identical to the related mouse and rat sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Suppressor of cytokine signaling 1 (SOCS1), also known as Jak-binding protein (JAB), is a negative regulator to a subset of protein-tyrosine kinases. This 211-amino acid protein has a molecular mass of about 23.5 kD. The TEC-binding region of SOCS1 resides in the N terminus. SOCS1 associates with Tec and suppresses its kinase activity.¹ The SOCS1 gene is intronless and is mapped to on chromosome 16p13.13.² SOCS1 regulates the JAK/STAT signal-transduction pathway.³ Moreover, it contributes to protection against hepatic injury and fibrosis, and may also protect against hepatocarcinogenesis.⁴

REFERENCE 1. Ohya K, Kajigaya S, Yamashita Y, Miyazato A, Hatake K, Miura Y, Ikeda U, Shimada K, Ozawa K, Mano H. SOCS-1/JAB/SSI-1 can bind to and suppress Tec protein-tyrosine kinase. J Biol Chem. 1997 Oct 24; 272(43):27178-82.

2. Kramer JA, Adams MD, Singh GB, Doggett NA, Krawetz SA. A matrix associated region localizes the human SOCS-1 gene to chromosome 16p13.13. Somat Cell Mol Genet. 1998 Mar; 24(2):131-3. 3. Nagai H, Naka T, Terada Y, Komazaki T, Yabe A, Jin E, Kawanami O, Kishimoto T, Konishi N, Nakamura M, Kobayashi Y, Emi M. Hypermethylation associated with inactivation of the SOCS-1 gene, a JAK/STAT inhibitor, in human hepatoblastomas. J Hum Genet. 2003; 48(2):65-9. 4. Yoshida T, Ogata H, Kamio M, Joo A, Shiraishi H, Tokunaga Y, Sata M, Nagai H, Yoshimura A. SOCS1 is a suppressor of liver fibrosis and hepatitis-induced carcinogenesis. J Exp Med. 2004 Jun 21; 199(12):1701-7.

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