



## Product Information Sheet

### Polyclonal Anti- Suppressor of cytokine signaling 2, *SOCS2(Magnetic Bead Conjugate)*

**Catalogue No.** PA1383-M

**Lot No.** 0131112068327

**Ig type** rabbit IgG

**Size** 100µg/vial

**Specificity**

Human, 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 SOCS2 (181-198 aa), identical to the related mouse and rat sequence.

**Purity**

Immunogen affinity purified.

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Reconstitution**

0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

### BACKGROUND

Suppressor of cytokine signaling 2 is a protein that in humans is encoded by the SOCS2 gene. This gene encodes a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signalling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by a subset of cytokines, including erythropoietin, GM-CSF, IL10 and interferon-gamma (IFN-gamma). The protein encoded by this gene is found to interact with the cytoplasmic domain of insulin-like growth factor 1 receptor (IGF1R), and thus is thought to be involved in the regulation of IGF1R mediated cell signaling. Knockout studies in mice also suggested a regulatory role of this gene in IGF-1 related growth control. By cytogenetic and radiation hybrid mapping, Yandava et al. (1999) mapped the SOCS2 gene to chromosome 12q21.3-q23.

### REFERENCE

- 1.Masuhara M, Sakamoto H, Matsumoto A, Suzuki R, Yasukawa H, Mitsui K, Wakioka T, Tanimura S, Sasaki A, Misawa H, Yokouchi M, Ohtsubo M, Yoshimura A (Nov 1997). "Cloning and characterization of novel CIS family genes". Biochem Biophys Res Commun 239 (2): 439–46.
- 2.Minamoto S, Ikegame K, Ueno K, Narazaki M, Naka T, Yamamoto H, Matsumoto T, Saito H, Hosoe S, Kishimoto T (Sep 1997). "Cloning and functional analysis of new members of STAT induced STAT inhibitor (SSI) family: SSI-2 and SSI-3". Biochem Biophys Res Commun 237 (1): 79–83.
- 3."Entrez Gene: SOCS2 suppressor of cytokine signaling 2".
- 4.Dey BR, Spence SL, Nissley P, Furlanetto RW (September 1998). "Interaction of human suppressor of cytokine signaling (SOCS)-2 with the insulin-like growth factor-I receptor". J. Biol. Chem. 273 (37): 24095–101.
- 5.Greenhalgh CJ, Bertolino P, Asa SL, Metcalf D, Corbin JE, Adams TE, Davey HW, Nicola NA, Hilton DJ, Alexander WS (June 2002). "Growth enhancement in suppressor of cytokine signaling 2 (SOCS-2)-deficient mice is dependent on signal transducer and activator of transcription 5b (STAT5b)". Mol. Endocrinol. 16 (6): 1394–406.

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**