

Code No. 18381

**Anti-Human
JAB/SOCS-1 (J192) Rabbit IgG Affinity Purify**Volume : 100 µg

Introduction : The Janus family of protein tyrosine kinases (JAKs) and STAT transcription factors regulate cellular processes involved in cell growth, differentiation, and transformation through their association with cytokine receptors. The CIS family of proteins (also referred as the SOCS or SSI family) has been implicated in the regulation of signal transduction by a variety of cytokines.

It is reported that JAB/SOCS-1 is strongly induced by interferon-gamma and forced expression of JAB/SOCS-1 conferred cells interferon resistance. This resistance was caused by inhibition of JAK1 and JAK2 activation in response to IFN gamma. Moreover, recent detailed analysis of JAB/SOCS-1 knockout mice revealed that JAB/SOCS-1 is indeed a "negative feedback regulator" that determine the sensitivity of cells to IFN gamma.

Antigen : Synthetic peptide of the C terminal part of Human JAB/SOCS-1

Purification : Purified with antigen peptide

Form : Lyophilized product from 1 % BSA in PBS containing 0.05% NaN₃

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for western blotting in concentration of 2 - 5 µg /mL.

Specificity : Antigen amino acid sequence is a common part with mouse and rat
Cross-reacts with mouse, but not tested cross-reactivity with rat.

Reference : 1. Yoshimura, A. *et al.* A novel cytokine- inducible gene CIS encodes an SH2 containing protein that binds to tyrosine- phosphorylated interleukin 3 and erythropoietin receptors. *EMBO J.* 14: 2816-2826, 1995
2. Yoshimura, A. *et al.* The CIS/JAB family: novel negative regulators of JAK signaling pathways. *Leukemia* 12: 1851 1857, 1998.
3. Iwamoto T., Senga T., Naito Y., Matsuda S., Miyake Y., Yoshimura A., and Hamaguchi M. The JAK-inhibitor, JAB/SOCS-1 selectively inhibits cytokineinduced, but not v-Src induced JAK-STAT activation. *Oncogene* 19 (41), 4795-801, 2000

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