

Code No. 10141

**Anti-Human
CIS3/SOCS-3 (19A5) Mouse IgG MoAb**

Volume : 200 µg

Lot No : 0B-015

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.

The cytokine-inducible SH2 protein-3 (CIS3/SOCS-3/SSI-3) has been shown to inhibit the JAK/STAT pathway and act as a negative regulator of fetal liver erythropoiesis. Recently, it is reported that CIS3 regulates the erythropoietin (EPO) receptor (EPOR) signaling in erythroid progenitors and Ba/F3 cells expressing the EPOR (BF-ER). CIS3 binds directly to the EPOR as well as JAK2 and inhibits EPO-dependent proliferation and STAT5 activation.

Antigen : Synthetic peptide for a C-terminal part of Human CIS3/SOCS-3 (C204)

Source : Mouse-Mouse hybridoma, supernatant from culture medium

Clone : 19A5

Subclass : IgG₁

Purification : Affinity purified with synthetic peptide

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

How to use : 1.0 ml distilled water will be added to the product

Dilution : PBS (pH7.4) containing 1% BSA

Stability : Lyophilized product, 5 years at 2 – 8

: Solution, 2 years at –20

Application : This antibody can be used for western blotting in concentration of 1 ~ 5 µg/ml.

Reference : Yoshimura A. The CIS family: negative regulators of JAK-STAT signaling. *Cytokine Growth Factor Rev.* **9** (3-4): 197-204, 1998

Sasaki A., Yasukawa H., Shouda T., Kitamura T., Dikic I., and Yoshimura A. CIS3/SOCS-3 suppresses erythropoietin (EPO) signaling by binding the EPO receptor and JAK2. *J. Biol. Chem.* **275** (38): 29338-47, 2000

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