

Code No. 18391

**Anti-Human  
CIS3/SOCS-3 (C204) Rabbit IgG Affinity Purify**Volume : 100 µg

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**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 of the C-terminal part of Human CIS3/SOCS-3

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**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 in immunohistochemistry with fixed paraffin embedded tissues after microwave treatment (10 mM Citrate Buffer, pH 6.0) by several high-sensitive techniques such as VECTASTAIN ABC Elite system (VECTOR), EnVision system (DAKO) and Max-Pro system (Nichirei). However, the antibody may not consistently give a positive result by conventional system such as Avidin Biotin Complex (ABC) Method or LSAB Method. The optimal concentration is about 5 µg/mL, however, the concentration should be optimized by each laboratory.  
: This antibody can be used for western blotting in concentration of about 3 µg /mL.

**Cross-reactivity** : The sequence of antigen peptide is the common part with Mouse and Rat.  
Reacts with Mouse, but not tested with Rat.

**Reference** : 1. Yoshimura A. The CIS family: negative regulators of JAK-STAT signaling. Cytokine Growth Factor Rev. 1998 Sep-Dec;9(3-4):197-204.  
2. Sasaki A, Yasukawa H, Shouda T, Kitamura T, Dikic I, Yoshimura A. CIS3/SOCS-3 suppresses erythropoietin (EPO) signaling by binding the EPO receptor and JAK2. J Biol Chem. 2000 Sep 22;275(38):29338-47.

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