

# AbboMax, Inc

Innovation at Work

## Order Information

Description: Rabbit anti CIS-1  
Catalogue#: 500-9594  
Lot#: See the label  
Size: 100 ug/200 ul  
Host: Rabbit  
Clone: N/A  
Application: ELISA, WB, IHC  
Reactivity: Hu, Rt, Ms.

## Rabbit anti CIS-1 Polyclonal Antibody

Alternate Names: Cytokine-inducible SH2-containing protein; CIS; CIS-1

### ANTIGEN PREPARATION

A synthetic peptide corresponding to internal sequence of CIS-1 protein from human, rat and mouse origins.

### BACKGROUND

Cytokines induce a variety of biological responses by binding to specific cell surface receptors and activating cytoplasmic signal transduction pathways which are suppressed by other transcriptional factors. Proteins that mediate these signals from the cell surface to the nucleus include JAKs and STATs, while SOCS (Suppressor of cytokine signaling) proteins inhibit those signaling. The SOCS family comprises at least 8 members, SOCS1 to SOCS7 and CIS (cytokine inducible SH2 containing protein). Structurally, the SOCS proteins are composed of an N terminal region of variable length and amino acid composition, a central SH2 domain, and a previously unrecognized C terminal motif named the SOCS box. SOCS 1 inhibition of signal transduction appears to occur by binding to and inhibiting the catalytic activity of members of JAK family of cytoplasmic kinases (direct JAK2 kinase inhibition). CIS1 is involved in EPO signaling.

### PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

### SPECIFICITY

This antibody recognizes ~29 kDa of CIS-1 protein from human, rat and mouse origins. The other species are not tested.

### FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer.

### STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	0.5-2 µg/ml
Flow cytometry	Not tested

<b>MOLECULAR WEIGHT:</b>	29 kDa
<b>POSITIVE CONTROL:</b>	Mouse Kidney
<b>CELLULAR LOCATION:</b>	Cytoplasmic/nuclear

Optimal dilutions should be determined by researchers for the specific applications.

### DATA ATTACHMENTS

80kDa  
66 kDa  
50 kDa  
37kDa  
20 kDa  
15 kDa



**Western Blot:** The tissue lysate derived from mouse kidney was immunoprobed by Rabbit anti-CIS-1 (Cat#500-9594) at 1:500. An immunoreactive band is observed around ~28kDa

### REFERENCES:

Aman, M.J et al. CIS associates with the interleukin-2 receptor beta chain and inhibits interleukin-2-dependent signaling. J. Biol. Chem. 274 (42), 30266-30272 (1999).

**FOR RESEARCH USE ONLY.**

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