

## Rabbit Anti-SOCS3 antibody

SL0580R

**Product Name** SOCS3

**Chinese Name** cell factor 信号传导抑制蛋白 3 抗体

**Alias** suppressor of cytokine signaling 3; ATOD4; CIS 3; CIS3; Cish3; Cytokine induced SH2 protein 3; E2a Pbx1 target gene in fibroblasts 10; EF 10; MGC71791; SOCS 3; SOCS-3; SSI 3; SSI3; STAT induced STAT inhibitor 3; Suppressor of cytokine signaling 3; SOCS3\_HUMAN.

**Research Area** Cell biology immunology Neurobiology Signal transduction

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)

**Applications** WB=1:500-2000,Flow-Cyt=1ug/Test (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 25kDa

**Cellular localization** cytoplasmic

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human Socs3: 155-225/225

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

Cytokines signal transduction pathway suppressor of cytokine signaling 3 positive cells in the brain are widely distributed, some of the cytoplasm of neurons, nerve fibers, glial cell line. suppressor of cytokine signaling 3 studies in recent years to prove: vascular endothelial cells also showed immune SOCS 3-positive.

**Function:**

SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity. Suppresses fetal liver erythropoiesis. Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells. Regulates IL-6 signaling in vivo (By similarity). Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize IL6ST (By similarity).

**Subunit:**

Interacts with multiple activated proteins of the tyrosine kinase signaling pathway including IGF1 receptor, insulin receptor and JAK2. Binding to JAK2 is mediated through the KIR and SH2 domains to a phosphorylated tyrosine residue within the JAK2 JH1 domain. Binds specific activated tyrosine residues of the leptin, EPO, IL12, GSCF and gp130 receptors. Interaction with CSNK1E stabilizes SOCS3 protein. Component of the probable ECS(SOCS3) E3 ubiquitin-protein ligase complex which contains CUL5, RNF7/RBX2, Elongin BC complex and SOCS3. Interacts with CUL5, RNF7, TCEB1 and TCEB2. Interacts with CUL2.

**Tissue Specificity:**

Widely expressed with high expression in heart, placenta, skeletal muscle, peripheral blood leukocytes, fetal and adult lung, and fetal liver and kidney. Lower levels in thymus.

**Post-translational modifications:**

Phosphorylated on tyrosine residues after stimulation by the cytokines, IL-2, EPO or IGF1.

**DISEASE:**

Genetic variation in the promoter region of SOCS3 may be associated with susceptibility to atopic dermatitis 4 (ATOD4) [MIM:605805]. Atopic dermatitis [MIM:603165], also known as eczema commonly begins in infancy or early childhood and is characterized by itchy and inflamed skin.

**Product  
Detail**

**Similarity:**

Contains 1 SH2 domain.

Contains 1 SOCS box domain.

**SWISS:**

O14543

**Gene ID:**

9021

**Database links:**

[Entrez Gene: 9021](#) Human

[Entrez Gene: 89829](#) Rat

[Omim: 604176](#) Human

[SwissProt: O14543](#) Human

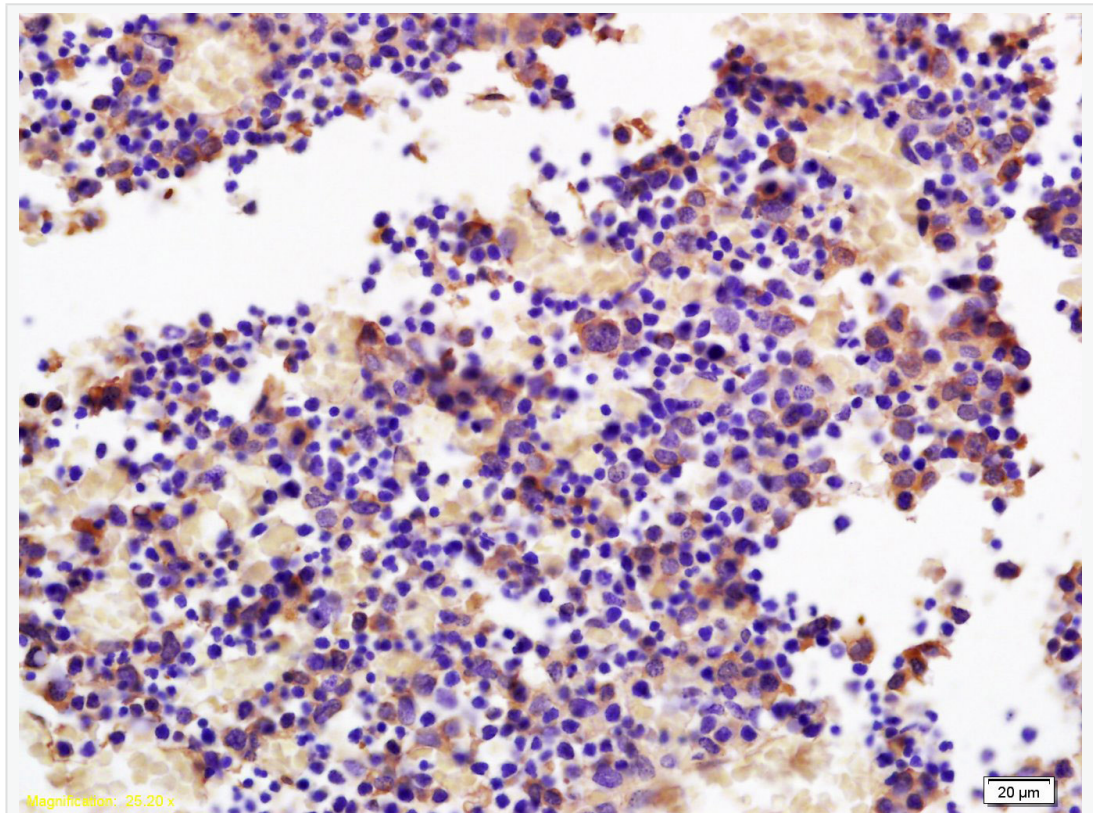
[SwissProt: O88583](#) Rat

[Unigene: 527973](#) Human

[Unigene: 127801](#) Rat

cell factorSignal transduction 途径抑制蛋白 SOCS3 阳性细胞在脑内分布广泛,阳性产物主要神经元核内;部分神经元的胞浆、神经纤维、胶质细胞。  
细胞激酶信号-3 抑制剂近年研究证明: vascular endothelial cell 也呈 SOCS 3 免疫阳性。

**Product  
Picture**



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

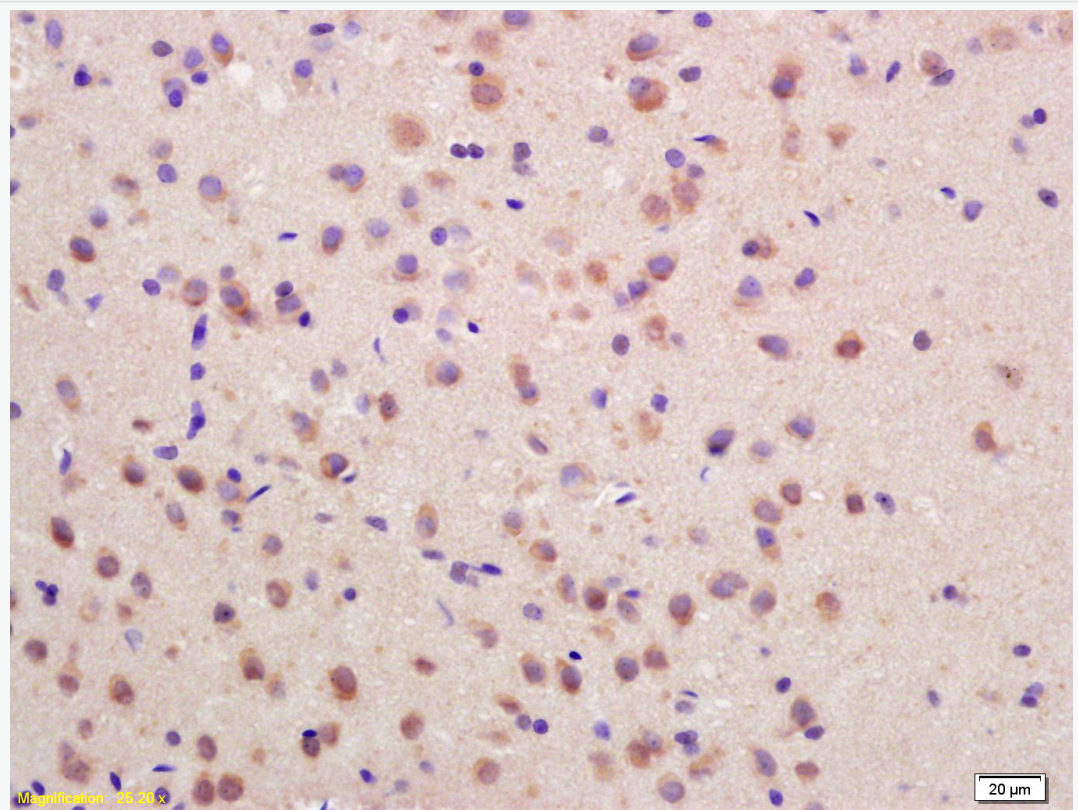
Antigen retrieval: citrate buffer

( Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)1M, pH 6.0 ),

Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-SOCS3 Polyclonal Antibody, Unconjugated(SL0580R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023)

and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer

( Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)1M, pH 6.0 ),

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and DAB(C-0010) staining