

## **CIS Polyclonal Antibody**

Catalog No: YT5920

**Reactivity:** Human; Mouse; Rat

**Applications:** IHC;IF;ELISA

Target: CIS

**Fields:** >>JAK-STAT signaling pathway;>>Prolactin signaling pathway

Gene Name: CISH G18

**Protein Name:** Cytokine-inducible SH2-containing protein (CIS) (CIS-1) (Protein G18)

(Suppressor of cytokine signaling) (SOCS)

Human Gene Id: 1154

Human Swiss Prot Q9NSE2

No:

Mouse Gene Id: 12700

**Mouse Swiss Prot** 

No:

Rat Swiss Prot No: 070512

**Immunogen:** Synthetic peptide from human protein at AA range: 30-90

**Specificity:** The antibody detects endogenous CIS

Q62225

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** IHC 1:50-200, ELISA 1:10000-20000. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

**Cell Pathway :** Jak\_STAT;

**Background:** cytokine inducible SH2 containing protein(CISH) Homo sapiens The protein

encoded by this gene contains a SH2 domain and a SOCS box domain. The protein thus belongs to the cytokine-induced STAT inhibitor (CIS), also known as suppressor of cytokine signaling (SOCS) or STAT-induced STAT inhibitor (SSI), protein family. CIS family members are known to be cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by IL2, IL3, GM-CSF and EPO in hematopoietic cells. Proteasome-mediated degradation of this protein has been shown to be involved in the inactivation of the erythropoietin receptor. Multiple transcript variants encoding different isoforms

have been found for this gene. [provided by RefSeq, Aug 2008],

**Function:** disease:CISH deletion may be involved in the pathogenesis of renal cell

carcinomas and of lung cancer since lung and kidney tumors frequently exhibit 3p21.3 deletions.,function:SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. CIS is involved in the negative regulation of cytokines that signal through the JAK-STAT5 pathway such as erythropoietin, prolactin and interleukin 3 (IL3) receptor. Inhibits STAT5 trans-activation by suppressing its tyrosine phosphorylation. May be a 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.,induction:By a subset of cytokines including erythropoietin (EPO).,pathway:Protein modification; protein

ubiquitination.,PTM:Association wi

Subcellular Location:

cytoplasm, cytosol, plasma membrane,

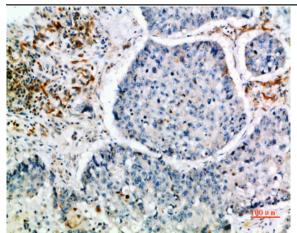
**Expression:** Expressed in various epithelial tissues. Abundantly expressed in liver and

kidney, and to a lesser extent in lung. The tissue distribution of isoforms 1 and 1B

is distinct.

## **Products Images**

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Immunohistochemical analysis of paraffin-embedded human-lung-cancer, antibody was diluted at 1:200