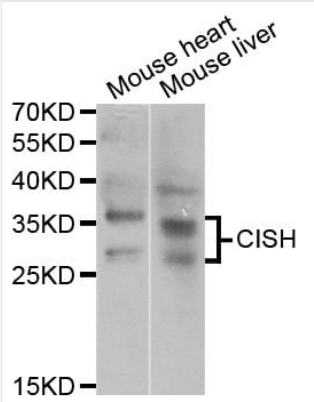
CISH Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CISH, Polyclonal Antibody
Full Product Name	CISH Polyclonal Antibody
Product Gene Name	anti-CISH antibody
Product Synonym Names	CIS; G18; SOCS; CIS-1; BACTS2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	258
OMIM	phenotype 614383
3D Structure	ModBase 3D Structure for Q9NSE2
Species	Human
Immunogen	Recombinant protein of human CISH
Calculated Molecular Weight	28kDa
Product Categories/Family for anti-CISH antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CISH antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CISH antibody	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200
Related Product Information for anti-CISH antibody	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.
Other Notes	Small volumes of anti-CISH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CISH purchase	MBS9127696 is an antibody targeting CISH. Also known as CISH Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CISH antibody
Western blot analysis of extracts of various cell lines, using CISH antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit.Exposure time: 60s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CISH. It may not necessarily be applicable to this product.

NCBI GI #	13124022
NCBI GeneID	1154
NCBI Accession #	Q9NSE2.1
UniProt Primary Accession #	Q9NSE2
UniProt Secondary Accession #	Q9NS38; Q9Y5R1; B2R9N1; G5E9R1
UniProt Related Accession #	Q9NSE2
NCBI Official Full Name	Cytokine-inducible SH2-containing protein
NCBI Official Synonym Full Names	cytokine inducible SH2-containing protein
NCBI Official Symbol	CISH
NCBI Official Synonym Symbols	CIS; G18; SOCS; CIS-1; BACTS2
UniProt Protein Name	Cytokine-inducible SH2-containing protein
UniProt Synonym Protein Names	CIS-1; Protein G18; Suppressor of cytokine signaling; SOCS
Protein Family	Cytokine-inducible SH2-containing protein
UniProt Gene Name	CISH
UniProt Synonym Gene Names	G18; CIS; SOCS
UniProt Entry Name	CISH_HUMAN
NCBI Protein Information	cytokine-inducible SH2-containing protein; suppressor of cytokine signaling; cytokine-inducible inhibitor of signaling type 1B

UniProt Comments for CISH	CISH: 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. Stably associated with the tyrosine-phosphorylated IL3 receptor beta chain and tyrosine-phosphorylated EPO receptor (EPOR). By a subset of cytokines including EPO/erythropoietin. 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. 3 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 3p21.3 Cellular Component: cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; protein kinase inhibitor activity Biological Process: cytokine and chemokine mediated signaling pathway; protein kinase C activation; protein ubiquitination; negative regulation of insulin receptor signaling pathway; negative regulation of protein kinase activity; regulation of cell growth; negative regulation of JAK-STAT cascade Disease: Mycobacterium Tuberculosis, Susceptibility To; Bacteremia, Susceptibility To, 2; Malaria, Susceptibility To
Research Articles on CISH	**1.** two genetic variants in CISH gene appear to increase susceptibility to TB in Chinese Han population
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