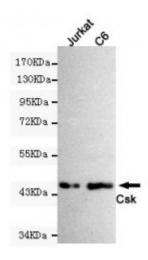


## **Anti-CSK antibody**



Description

Mouse monoclonal to CSK.

Model STJ99130

**Host** Mouse

**Reactivity** Human, Rat

**Applications** ELISA, WB

Immunogen Purified recombinant human CSK protein fragments expressed in E.coli.

**Gene ID** 1445

Gene Symbol CSK

**Dilution range** WB 1:500-2000ELISA 1:10000-20000

**Specificity** This antibody detects endogenous levels of CSK and does not cross-react with

related proteins.

**Tissue Specificity** Expressed in lung and macrophages.

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

chromatography using epitope-specific immunogen.

**Clone ID** 2B4-C6-A10

**Note** For Research Use Only (RUO).

Protein Name Tyrosine-protein kinase CSK C-Src kinase Protein-tyrosine kinase CYL

Molecular Weight 50kDa

**Clonality** Monoclonal

**Conjugation** Unconjugated

Isotype IgG2b

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

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:2444OMIM:124095</u>

Alternative Names Tyrosine-protein kinase CSK C-Src kinase Protein-tyrosine kinase CYL

**Function** Non-receptor tyrosine-protein kinase that plays an important role in the

regulation of cell growth, differentiation, migration and immune response. Phosphorylates tyrosine residues located in the C-terminal tails of Src-family kinases (SFKs) including LCK, SRC, HCK, FYN, LYN or YES1. Upon tail phosphorylation, Src-family members engage in intramolecular interactions between the phosphotyrosine tail and the SH2 domain that result in an inactive conformation. To inhibit SFKs, CSK is recruited to the plasma membrane via binding to transmembrane proteins or adapter proteins located near the plasma membrane. Suppresses signaling by various surface receptors, including T-cell

receptor (TCR) and B-cell receptor (BCR) by phosphorylating and maintaining inactive several positive effectors such as FYN or LCK.

**Sequence and Domain Family** The architecture of this protein is similar to that of Src-family kinases (SFKs)

with one N-terminal SH3 domain, one SH2 domain, and a C-terminal kinase

domain.

**Cellular Localization** Cytoplasm Cell membrane. Mainly cytoplasmic, also present in lipid rafts.

**Post-translational** Phosphorylated at Ser-364 by PKA, leading to increased activity.

**Modifications** Autophosphorylated.

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