

## Rabbit Anti-CSK/Cy5 Conjugated antibody

SL12941R-Cy5

<b>Product Name</b>	Anti-CSK/Cy5
<b>Chinese Name</b>	Cy5 标记的酪氨酸激酶 C-SRC 抗体
<b>Alias</b>	C SRC; C SRC kinase; C src Tyrosine Kinase; C-SRC kinase; c-src tyrosine kinase; Csk A; CSK; CSK_HUMAN; CYTOPLASMIC TYROSINE KINASE; EC 2.7.10.2; MGC112926; MGC117393; MGC154049; P60 Src; Protein tyrosine kinase CYL; Protein-tyrosine kinase CYL; Proto oncogene tyrosine protein kinase; Tyrosine protein kinase CSK; Tyrosine-protein kinase CSK; zgc:154049.
<b>Research Area</b>	Cell biology Signal transduction Kinases and Phosphatases
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Mouse(predicted:Rat,Chicken,Dog,Pig,Cow,Sheep,Monkey) IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	51kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human CSK
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> All members of the Src gene family of tyrosine kinases are characterized by a carboxy terminal domain tyrosine which is highly phosphorylated in the inactive form of the enzyme and phosphorylated to a much lesser extent when

the enzyme is active. In the case of Src p60, Y527 is this tyrosine; however, a mutant form of c-Src in which Y527 is replaced by phenylalanine is transforming and displays 5- to 10-fold elevated kinase activity compared to its normal counterpart. Csk has been identified as a Src-related tyrosine kinase having both SH2 and SH3 domains and a catalytic domain but lacking sequences amino terminal to the SH3 domain as well as carboxy terminal regulatory sequences. Csk phosphorylates Src on Y527 and also downregulates Lyn, Fyn and Lck by tyrosine phosphorylation of carboxy terminal regulatory sites.

**Function:**

Specifically phosphorylates 'Tyr-504' on LCK, which acts as a negative regulatory site. Can also act on the LYN and FYN kinases.

**Subunit:**

Homodimer (via SH3-domain). Interacts with PTPN8 (By similarity). Interacts with phosphorylated SIT1, PAG1, LIME1 and TGFB1I1; these interactions serve to recruit CSK to the membrane where it can phosphorylate and inhibit Src-family kinases. Interacts with SRCIN1. Interacts with RHOH. Interacts (via SH2 domain) with SCIMP.

**Subcellular Location:**

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

**Tissue Specificity:**

Expressed in lung and macrophages.

**Post-translational modifications:**

Autophosphorylation of Tyr-304 occurs only at abnormally high CSK concentrations in vitro.

**Similarity:**

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSK subfamily.  
Contains 1 protein kinase domain.  
Contains 1 SH2 domain.  
Contains 1 SH3 domain.

**Database links:**

[Entrez Gene: 509246](#) Cow

[Entrez Gene: 487649](#) Dog



[Entrez Gene: 1445](#) Human

[Entrez Gene: 12988](#) Mouse

[Entrez Gene: 315707](#) Rat

[Omid: 124095](#) Human

[SwissProt: Q0VBZ0](#) Cow

[SwissProt: P41240](#) Human

[SwissProt: P41241](#) Mouse

[SwissProt: P32577](#) Rat

[Unigene: 77793](#) Human

[Unigene: 21974](#) Mouse

[Unigene: 470150](#) Mouse

[Unigene: 2759](#) Rat

**Important Note:**

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