SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-phospho-CSK (Ser364)/AF350 Conjugated antibody

SL12942R-AF350

Product Name	Anti-phospho-CSK (Ser364)/AF350
Chinese Name	AF350 标记的磷酸化酪氨酸激酶 C-SRC 抗体
Alias	CSK(phospho S364); p-CSK(phospho S364); 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.
Product Type	Phosphorylated anti
Research Area	Cell biology Signal transduction Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat(predicted:Mouse,Chicken,Pig,Cow,Horse,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	51kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthesised phosphopeptide derived from human CSK around the phosphorylation site of Ser364
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	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.

Product Detail

background:
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

Omim: 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.