SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-CSK/Biotin Conjugated antibody

Catalog Number: SL12941R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CSK/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human CSK
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Chicken,Dog,Pig,Cow,Sheep,Monkey)
Background:	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.

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

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	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.

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