

Rabbit Anti-phospho-LCK (Tyr394) antibody

SL5406R

Product Name:	phospho-LCK (Tyr394)
Chinese Name:	磷酸化lymphocyte特异性蛋白酪氨酸激酶抗体
Alias:	LCK (phospho Y394); LCK (phospho Tyr394); p-LCK (Tyr394); p56-LCK; Lymphocyte cell-specific protein-tyrosine kinase; LSK; T cell-specific protein-tyrosine kinase; Lck p56; LSK; Lymphocyte Specific Protein Tyrosine Kinase; Membrane associated protein tyrosine kinase; Oncogene lck; P56 LCK; p56(LSTRA) protein tyrosine kinase; p56lck; pp58 lck; pp58lck; Proto oncogene tyrosine protein kinase LCK; Protooncogene tyrosine protein kinase LCK; T cell specific protein tyrosine kinase; T lymphocyte specific protein tyrosine kinase p56lck; YT 16; YT16; LCK_HUMAN.
Organism Snecies:	Rabbit
Clonality:	Polyclonal
React Species:	Human.Mouse.Rat.Chicken.Pig.Rabbit.
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human LCK around the phosphorylation site of Tyr394:NE(p-Y)TA
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of

interactions allow LCK-mediated RHOH and CD3 subunit phosphorylation in the presence of functional ZAP70.

Subcellular Location:

Cytoplasm. Cell membrane; Lipid-anchor; Cytoplasmic side. Note=Present in lipid rafts in an inactive form.

Tissue Specificity: Expressed specifically in lymphoid cells.

Post-translational modifications:

Autophosphorylated on Tyr-394, increasing enzymatic activity, this site is dephosphorylated by PTN22. Phosphorylated on Tyr-505 by CSK, decreasing activity. Dephosphorylated by PTPRC/CD45.

Myristoylation is required prior to palmitoylation. Palmitoylation regulates subcellular location.

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DISEASE:

Note=A chromosomal aberration involving LCK is found in leukemias. Translocation t(1;7)(p34;q34) with TCRB.

Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain.

Contains 1 SH2 domain. Contains 1 SH3 domain.

SWISS: P06239

Gene ID: 3932

Database links:

Entrez Gene: 3932Human

Entrez Gene: 16818 Mouse

Entrez Gene: 313050Rat

<u>Omim: 153390</u>Human

SwissProt: P06239Human

SwissProt: P06240Mouse

SwissProt: Q01621Rat



Predicted band size: 56 kD
Observed band size: 40 kD

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