10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CSK (pS364) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51626

Product Information

Application	WB
Primary Accession	P41240
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50704

Additional Information

Gene ID	1445
Other Names	Tyrosine-protein kinase CSK, C-Src kinase, Protein-tyrosine kinase CYL, CSK
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CSK. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CSK
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, CSK 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. May act as a negative regulator of EGFR and STAT3 signaling pathways (PubMed:26918609).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P41241}. Cell membrane {ECO:0000250|UniProtKB:P41241}. Note=Mainly cytoplasmic, also present in

lipid rafts. {ECO:0000250|UniProtKB:P41241}

Tissue Location Expressed in lung and macrophages.

Background

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.

References

Partanen J.,et al.Oncogene 6:2013-2018(1991).
Braeuninger A.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:10411-10415(1991).
Brauninger A.,et al.Gene 110:205-211(1992).
Braeuninger A.,et al.Oncogene 8:1365-1369(1993).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.