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Anti-CSK Picoband Antibody

Catalog # ABO11809

Product Information

Application	WB, IHC-P
Primary Accession	P41240
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Tyrosine-protein kinase CSK(CSK) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1445
Other Names	Tyrosine-protein kinase CSK, 2.7.10.2, C-Src kinase, Protein-tyrosine kinase CYL, CSK
Calculated MW	50704
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm . Cell membrane . Mainly cytoplasmic, also present in lipid rafts. .
Tissue Specificity	Expressed in lung and macrophages. .
Source	Eukaryota
Protein Name	Tyrosine-protein kinase CSK
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human CSK recombinant protein (Position: S2-G204). Human CSK shares 99% amino acid (aa) sequence identity with both mouse and rat CSK.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also

	be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSK subfamily.

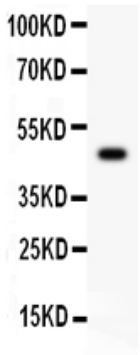
Protein Information

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

CSK also known as C-Src kinase, is a non-receptor protein tyrosine kinase protein that in humans is encoded by the CSK gene. It is mapped to 15q24.1. CSK suppresses activity of the Src family of protein kinases by phosphorylation of Src family members at a conserved C-terminal site in Src. Csk's control of the Src family activity is widely thought to be central to regulation of the immune response. CSK can downregulate tyrosine kinase activity of the SRC oncoprotein through tyrosine phosphorylation of the SRC carboxy terminus. Since cell transformation by SRC oncoproteins is caused by various mechanisms that interfere with this phosphorylation, the CSK gene might function as an antioncogene.

Images



Anti-CSK Picoband antibody, ABO11809-1.jpgAll lanes: Anti CSK (ABO11809) at 0.5ug/mlWB: Recombinant Human CSK Protein 0.5ngPredicted bind size: 47KDObserved bind size: 47KD

Anti-CSK Picoband antibody, ABO11809-2.jpgAll lanes:

Anti CSK (ABO11809) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Rat Thymus Tissue Lysate at 50ugLane 3: Mouse Liver Tissue Lysate at 50ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: JURKAT Whole Cell Lysate at 40ugLane 6: A549 Whole Cell Lysate at 40ugLane 7: MCF-7 Whole Cell Lysate at 40ugLane 8: NIH3T3 Whole Cell Lysate at 40ugLane 9: NEURO Whole Cell Lysate at 40ugPredicted bind size: 51KDObserved bind size: 51KD