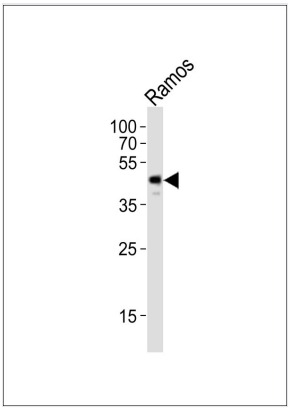
CSK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CSK, Polyclonal Antibody
Full Product Name	CSK Antibody (Center)
Product Gene Name	anti-CSK antibody
Product Synonym Names	Tyrosine-protein kinase CSK; C-Src kinase; Protein-tyrosine kinase CYL; CSK
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This CSK antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 164-197 amino acids from the Central region of human CSK.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CSK peptide (MBS9229760) is used for blocking the activity of CSK antibody (MBS9207906)
Molecular Weight	50704
OMIM	124095
3D Structure	ModBase 3D Structure for P41240
Antigen Source	HUMAN
Product Categories/Family for anti-CSK antibody	Signal Transduction
Applications Tested/Suitable for anti-CSK antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CSK antibody	WB~~1:1000
Related Product Information for anti-CSK antibody	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.

Product References and Citations for anti-CSK antibody	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.
Other Notes	Small volumes of anti-CSK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CSK purchase	MBS9207906 is an antibody targeting CSK. Also known as CSK Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CSK antibody
Western blot analysis of lysate from Ramos cell line, using CSK Antibody (Center). MBS9207906 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSK. It may not necessarily be applicable to this product.

NCBI GI #	187475373
NCBI GeneID	1445
NCBI Accession #	NP_001120662.1
UniProt Primary Accession #	P41240
UniProt Secondary Accession #	Q2M3N2; Q6FGZ6
UniProt Related Accession #	P41240
GenBank Nucleotide #	NM_001127190.1
NCBI Official Full Name	tyrosine-protein kinase CSK
NCBI Official Synonym Full Names	c-src tyrosine kinase
NCBI Official Symbol	CSK
UniProt Protein Name	Tyrosine-protein kinase CSK
UniProt Synonym Protein Names	C-Src kinase; Protein-tyrosine kinase CYL
Protein Family	Chloroplast sensor kinase
UniProt Gene Name	CSK
UniProt Entry Name	CSK_HUMAN
NCBI Protein Information	tyrosine-protein kinase CSK

UniProt Comments for CSK	CSK: a tyrosine kinase of the Csk family that phosphorylates and inhibits Src family kinases. Specifically phosphorylates Y504 on LCK, which acts as a negative regulatory site. Csk and the phospho-tyrosine phosphatase CD45 reciprocally regulate phosphorylation of the inhibitory tyrosine of the Src family kinases Lck and Fyn during T-cell receptor mediated signaling during thymic development. Protein type: EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); Protein kinase, TK; Kinase, protein; TK group; Csk family Chromosomal Location of Human Ortholog: 15q24.1 Cellular Component: extrinsic to internal side of plasma membrane; cytoplasm; plasma membrane; intercellular junction; cytosol; lipid raft Molecular Function: protein C-terminus binding; identical protein binding; protein binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; protein phosphatase binding; ATP binding; receptor binding Biological Process: epidermal growth factor receptor signaling pathway; negative regulation of kinase activity; negative regulation of phagocytosis; platelet activation; cell migration; central nervous system development; negative regulation of Golgi to plasma membrane protein transport; T cell receptor signaling pathway; protein amino acid phosphorylation; regulation of cell proliferation; regulation of cytokine production; negative regulation of cell proliferation; positive regulation of MAP kinase activity; T cell costimulation; negative regulation of interleukin-6 production; morphogenesis of an epithelium; innate immune response; oligodendrocyte differentiation; brain development; blood coagulation; cell differentiation; negative regulation of bone resorption; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on CSK	**1.** Data indicate that the potent c-Src inhibitors pyrazolo[3,4-d]pyrimidines showed in vivo activity in neuroblastoma xenograft model.
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