CSK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CSK, Polyclonal Antibody
Full Product Name	CSK, NT (CSK, Tyrosine-protein kinase CSK, C-Src kinase, Protein-tyrosine kinase CYL) (MaxLight 650)
Product Gene Name	anti-CSK antibody
Product Synonym Names	CSK; Tyrosine-protein kinase CSK; C-Src kinase; Protein-tyrosine kinase CYL
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	50,704 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (75074425..75095539). Location: 15q24.1
OMIM	124095
3D Structure	ModBase 3D Structure for P41240
Immunogen	CSK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-61 amino acids from the N-terminal region of human CSK.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CSK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CSK antibody	Western Blot (WB), FLISA
Application Notes for anti-CSK antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CSK antibody	Specifically phosphorylates 'Tyr-504' on LCK, which acts as a negative regulatory site. Can also act on the LYN and FYN kinases.
Product References and Citations for anti-CSK antibody	Niu, W., et al. Clin. Chim. Acta 411 (19-20), 1491-1495 (2010): Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010). Mikkola, E.T., et al. J. Mol. Biol. 399(4):618-627(2010). Takeuchi, F., et al. Circulation 121(21):2302-2309(2010).
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	MBS6289316 is an antibody targeting CSK. Also known as CSK, NT (CSK, Tyrosine-protein kinase CSK, C-Src kinase, Protein-tyrosine kinase CYL) (MaxLight 650). Reactive in Human. Host: Rabbit.

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
NCBI Related Accession #	NP_004374.1
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; C-Src kinase; protein-tyrosine kinase CYL
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: Protein kinase, TK; EC 2.7.10.2; Kinase, protein; Protein kinase, tyrosine (non-receptor); 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; platelet activation; negative regulation of kinase activity; negative regulation of phagocytosis; cell migration; central nervous system development; negative regulation of Golgi to plasma membrane protein transport; protein amino acid phosphorylation; T cell receptor signaling pathway; regulation of cytokine production; regulation of cell proliferation; positive regulation of MAP kinase activity; negative regulation of cell proliferation; T cell costimulation; negative regulation of interleukin-6 production; innate immune response; oligodendrocyte differentiation; morphogenesis of an epithelium; brain development; negative regulation of bone resorption; cell differentiation; blood coagulation; transmembrane receptor protein tyrosine kinase signaling pathway

Research Articles on CSK	**1.** No significant association was observed for CSK rs1378942 or MTHFR rs17367504 and hypertension in East Asians.
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