CSK Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CSK, Lysate
Full Product Name	Human CSK Protein Lysate
Product Gene Name	CSK lysate
Product Synonym Names	CSK; MGC117393
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	51kDa
OMIM	124095
3D Structure	ModBase 3D Structure for P41240
Related Product Information for CSK lysate	Human CSK Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CSK lysate 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	MBS139981 is a lysate targeting CSK. Also known as Human CSK Protein Lysate. Host: Human.

ADDITIONAL DETAILS

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

NCBI GI #	4758078
NCBI GeneID	1445
NCBI Accession #	NP_004374
UniProt Primary Accession #	P41240
UniProt Related Accession #	P41240
GenBank Nucleotide #	NM_004383
NCBI Official Full Name	tyrosine-protein kinase CSK
NCBI Official Synonym Full Names	C-terminal Src 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
NCBI Summary for CSK	The protein encoded by this gene is involved in multiple pathways, including the regulation of Src family kinases. It plays an important role in T-cell activation through its association with the protein encoded by the protein tyrosine phosphatase, non-receptor type 22 (PTPN22) gene. This protein also phosphorylates C-terminal tyrosine residues on multiple substrates, including the protein encoded by the SRC proto-oncogene, non-receptor tyrosine kinase gene. Phosphorylation suppresses the kinase activity of the Src family tyrosine kinases. An intronic polymorphism (rs34933034) in this gene has been found to affect B-cell activation and is associated with systemic lupus erythematosus (SLE). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2017]
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.** It was discovered that pseudo-kinase pragmin uses the tyrosine kinase CSK to induce protein tyrosine phosphorylation in human cells.
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