

Recombinant Human LCP2

Cat. No. LCP2-30444TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SLP76 with N terminal proprietary tag, predicted mwt: 84.74kDa.
Species	Human
Source	Wheat Germ
ProteinLength	533 amino acids
Description	SLP-76 was originally identified as a substrate of the ZAP-70 protein tyrosine kinase following T cell receptor (TCR) ligation in the leukemic T cell line Jurkat. The SLP-76 locus has been localized to human chromosome 5q33 and the gene structure has been partially characterized in mice. The human and murine cDNAs both encode 533 amino acid proteins that are 72% identical and comprised of three modular domains. The NH2-terminus contains an acidic region that includes a PEST domain and several tyrosine residues which are phosphorylated following TCR ligation. SLP-76 also contains a central proline-rich domain and a COOH-terminal SH2 domain. A number of additional proteins have been identified that associate with SLP-76 both constitutively and inducibly following receptor ligation, supporting the notion that SLP-76 functions as an adaptor or scaffold protein. Studies using SLP-76 deficient T cell lines or mice have provided strong evidence that SLP-76 plays a positive role in promoting T cell development and activation as well as mast cell and platelet function.
Molecular Weight	84.740kDa inclusive of tags

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Tissue specificity	Highly expressed in spleen, thymus and peripheral blood leukocytes. Highly expressed also in T-cell and monocytic cell lines, expressed at lower level in B-cell lines. Not detected in fibroblast or neuroblastoma cell lines.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MALRNVPRSEVLGWDPDSLADYFKKLNYKDCEKAVKKYH IDGARFLNLTENDIQK FPKLRVPILSKLSQEINKNEERRS IFTRKPQVPRFPEETESHEEDNGGWSSFEEDDY ESPNDDQ DGEDDGDYESPNEEEEEAPVEDDADYEPPPSNDEEALQNSI LPAKPPFN SNSMYIDRPPSGKTPQQPPVPPQRPMAALPPP PAGRNHSP LPPPQTNHEEPSRSR NHKTAKLPASIDRSTK PPLDRSLAPFDREPFTLGKKPPFSDKPSIPAGRSLGEHLP KIQKPLPPTTERHERSSPLPGKKPPVPKHGWGPDRREND EDDVHQRPLPQPALL PMSSNTFPSRSTKPSPMNPLPSSHM PGAFSESNSSFPQSASLPPYFSQGPSNRPPI RAEGRNFPL PLPNKPRPPSPAEEENS LNEEWYVSYITRPEAEALRKIN QDGTFLV RDSSKKT TTNPYVLMVLYKDKVYNIQIRYQKES QVYLLGTGLRGKEDFLSVSDIIDYF RKMPLLLIDGKNRGS RYQCTLTHAAGYP
Sequence Similarities	Contains 1 SAM (sterile alpha motif) domain. Contains 1 SH2 domain.
GENE INFORMATION	
Gene Name	LCP2 lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa) [Homo sapiens]

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Official Symbol	LCP2
Synonyms	LCP2; lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa); lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kD) , SLP76; lymphocyte cytosolic protein 2; 76 kDa tyrosine phosphoprotein; SH2 domain c
Gene ID	3937
mRNA Refseq	NM_005565
Protein Refseq	NP_005556
MIM	601603
Uniprot ID	Q13094
Chromosome Location	5q33.1-qter
Pathway	Adaptive Immune System, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, conserved biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem;