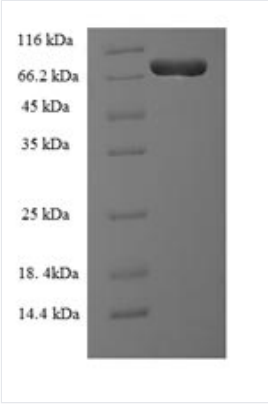
# Plastin-2 (LCP1) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Plastin-2 (LCP1), Recombinant Protein |
| **Full Product Name** | Recombinant Human Plastin-2 (LCP1) |
| **Product Gene Name** | LCP1 recombinant protein |
| **Product Synonym Names** | L-plastin; LC64P; Lymphocyte cytosolic protein 1; LCP-1 |
| **Sequence** | ARGSVSDEEM MELREAFAKV DTDGNGYISF NELNDLFKAA CLPLPGYRVR EITENLMATG DLDQDGRISF DEFIKIFHGL KSTDVAKTFR KAINKKEGIC AIGGTSEQSS VGTQHSYSEE EKYAFVNWIN KALENDPDCR HVIPMNPNTN DLFNAVGDGI VLCKMINLSV PDTIDERTIN KKKLTPFTIQ ENLNLALNSA SAIGCHVVNI GAEDLKEGKP YLVLGLLWQV IKIGLFADIE LSRNEALIAL LREGESLEDL MKLSPEELLL RWANYHLENA GCNKIGNFST DIKDSKAYYH LLEQVAPKGD EEGVPAVVID MSGLREKDDI QRAECMLQQA ERLGCRQFVT ATDVVRGNPK LNLAFIANLF NRYPALHKPE NQDIDWGALE GETREERTFR NWMNSLGVNP RVNHLYSDLS DALVIFQLYE KIKVPVDWNR VNKPPYPKLG GNMKKLENCN YAVELGKNQA KFSLVGIGGQ DLNEGNRTLT LALIWQLMRR YTLNILEEIG GGQKVNDDII VNWVNETLRE AKKSSSISSF KDPKISTSLP VLDLIDAIQP GSINYDLLKT ENLNDDEKLN NAKYAISMAR KIGARVYALP EDLVEVNPKM VMTVFACLMG KGMKRV |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. |
| **Molecular Weight** | 72.2 kDa |
| **Sequence Positions** | 2-627aa; Full Length of Mature Protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 153430 |
| **3D Structure** | ModBase 3D Structure for P13796 |
| **Production Note** | **Special Offer:** The Baculovirus, E Coli, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Baculovirus, E Coli, Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Baculovirus, E Coli, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Baculovirus, E Coli, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our **technical support team** **or email to** **support@mybiosource.com** for more details. |
| **Product Categories/Family for LCP1 recombinant protein** | Cancer |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for LCP1 recombinant protein** | Actin-binding protein. Plays a role in the activation of T-cells in response to costimulation through TCR/CD3 and CD2 or CD28. Modulates the cell surface expression of IL2RA/CD25 and CD69. |

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| **Product References and Citations for LCP1 recombinant protein** | 65-kilodalton protein phosphorylated by interleukin 2 stimulation bears two putative actin-binding sites and two calcium-binding sites.Zu Y., Shigesada K., Nishida E., Kubota I., Kohno M., Hanaoka M., Namba Y.Biochemistry 29:8319-8324(1990) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) The DNA sequence and analysis of human chromosome 13.Dunham A., Matthews L.H., Burton J., Ashurst J.L., Howe K.L., Ashcroft K.J., Beare D.M., Burford D.C., Hunt S.E., Griffiths-Jones S., Jones M.C., Keenan S.J., Oliver K., Scott C.E., Ainscough R., Almeida J.P., Ambrose K.D., Andrews D.T., Ashwell R.I.S., Babbage A.K., Bagguley C.L., Bailey J., Bannerjee R., Barlow K.F., Bates K., Beasley H., Bird C.P., Bray-Allen S., Brown A.J., Brown J.Y., Burrill W., Carder C., Carter N.P., Chapman J.C., Clamp M.E., Clark S.Y., Clarke G., Clee C.M., Clegg S.C., Cobley V., Collins J.E., Corby N., Coville G.J., Deloukas P., Dhami P., Dunham I., Dunn M., Earthrowl M.E., Ellington A.G., Faulkner L., Frankish A.G., Frankland J., French L., Garner P., Garnett J., Gilbert J.G.R., Gilson C.J., Ghori J., Grafham D.V., Gribble S.M., Griffiths C., Hall R.E., Hammond S., Harley J.L., Hart E.A., Heath P.D., Howden P.J., Huckle E.J., Hunt P.J., Hunt A.R., Johnson C., Johnson D., Kay M., Kimberley A.M., King A., Laird G.K., Langford C.J., Lawlor S., Leongamornlert D.A., Lloyd D.M., Lloyd C., Loveland J.E., Lovell J., Martin S., Mashreghi-Mohammadi M., McLaren S.J., McMurray A., Milne S., Moore M.J.F., Nickerson T., Palmer S.A., Pearce A.V., Peck A.I., Pelan S., Phillimore B., Porter K.M., Rice C.M., Searle S., Sehra H.K., Shownkeen R., Skuce C.D., Smith M., Steward C.A., Sycamore N., Tester J., Thomas D.W., Tracey A., Tromans A., Tubby B., Wall M., Wallis J.M., West A.P., Whitehead S.L., Willey D.L., Wilming L., Wray P.W., Wright M.W., Young L., Coulson A., Durbin R.M., Hubbard T., Sulston J.E., Beck S., Bentley D.R., Rogers J., Ross M.T.Nature 428:522-528(2004) |
| **Other Notes** | Small volumes of LCP1 recombinant protein 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 LCP1 purchase** | MBS953535 is a recombinant protein targeting LCP1. Also known as Recombinant Human Plastin-2 (LCP1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |




**SDS-Page of LCP1 recombinant protein**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LCP1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 167614506 |
| **NCBI GeneID** | 3936 |
| **NCBI Accession #** | NP_002289.2 |
| **UniProt Primary Accession #** | P13796 |
| **UniProt Secondary Accession #** | Q5TBN4; B2R613; B4DUA0 |
| **UniProt Related Accession #** | P13796 |
| **GenBank Nucleotide #** | NM_002298.4 |
| **NCBI Official Full Name** | plastin-2 |
| **NCBI Official Synonym Full Names** | lymphocyte cytosolic protein 1 (L-plastin) |
| **NCBI Official Symbol** | LCP1 |
| **NCBI Official Synonym Symbols** | LPL; CP64; PLS2; LC64P; HEL-S-37; L-PLASTIN |
| **UniProt Protein Name** | Plastin-2 |
| **UniProt Synonym Protein Names** | L-plastin; LC64P; Lymphocyte cytosolic protein 1; LCP-1 |
| **Protein Family** | Digestive cysteine proteinase |
| **UniProt Gene Name** | LCP1 |
| **UniProt Synonym Gene Names** | PLS2; LCP-1 |
| **UniProt Entry Name** | PLSL_HUMAN |
| **NCBI Protein Information** | plastin-2 |
| **NCBI Summary for LCP1** | Plastins are a family of actin-binding proteins that are conserved throughout eukaryote evolution and expressed in most tissues of higher eukaryotes. In humans, two ubiquitous plastin isoforms (L and T) have been identified. Plastin 1 (otherwise known as Fimbrin) is a third distinct plastin isoform which is specifically expressed at high levels in the small intestine. The L isoform is expressed only in hemopoietic cell lineages, while the T isoform has been found in all other normal cells of solid tissues that have replicative potential (fibroblasts, endothelial cells, epithelial cells, melanocytes, etc.). However, L-plastin has been found in many types of malignant human cells of non-hemopoietic origin suggesting that its expression is induced accompanying tumorigenesis in solid tissues. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for LCP1** | L-plastin: Actin-binding protein. Plays a role in the activation of T-cells in response to costimulation through TCR/CD3 and CD2 or CD28. Modulates the cell surface expression of IL2RA/CD25 and CD69. Monomer. Interacts with AIF1. Detected in intestinal microvilli, hair cell stereocilia, and fibroblast filopodia, in spleen and other lymph node-containing organs. Expressed in peripheral blood T- lymphocytes, neutrophils, monocytes, B-lymphocytes, and myeloid cells.<br><br>Protein type: Motility/polarity/chemotaxis; Actin-binding<br><br>Chromosomal Location of Human Ortholog: 13q14.3<br><br>Cellular Component: actin cytoskeleton; actin filament; actin filament bundle; cytoplasm; cytosol; extracellular space; filopodium; focal adhesion; phagocytic cup; plasma membrane; podosome; ruffle; stress fiber<br><br>Molecular Function: actin binding; actin filament binding; calcium ion binding; GTPase binding; identical protein binding<br><br>Biological Process: actin filament bundle formation; cell migration; extracellular matrix disassembly; organ regeneration; regulation of intracellular protein transport; T cell activation during immune response |
| **Research Articles on LCP1** | **1.** An NKX3.1 binding site polymorphism in the l-plastin promoter leads to differential gene expression in human prostate cancer |

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