Plastin L Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Plastin L (LCP1), Blocking Peptide
Full Product Name	Plastin L Blocking Peptide
Product Gene Name	LCP1 blocking peptide
Product Synonym Names	CP64; L plastin; L-plastin; Larval cuticle protein 1; LC64P; LCP-1; LCP1; LPL; Lplastin; Lymphocyte cytosolic protein 1; Plastin 2; Plastin-2; PLS2; PLSL_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Plastin L peptide (MBS9626750) is used for blocking the activity of Plastin L antibody (MBS9608038)
Molecular Weight	70,288 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (46700058..46756459, complement). Location: 13q14.3
OMIM	153430
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for LCP1 blocking peptide	Blocking/Control
Related Product Information for LCP1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of LCP1 blocking peptide 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	MBS9626750 is a blocking peptide targeting LCP1. Also known as Plastin L Blocking Peptide.

ADDITIONAL DETAILS

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

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; FLJ25423; FLJ26114; FLJ39956; L-PLASTIN; DKFZp781A23186
UniProt Protein Name	Plastin-2
UniProt Synonym Protein Names	L-plastin; LC64P; Lymphocyte cytosolic protein 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; LCP-1; plastin 2; OTTHUMP00000018362; Lymphocyte cytosolic protein-1 (plasmin); bA139H14.1 (lymphocyte cytosolic protein 1 (L-plastin)); L-plastin (Lymphocyte cytosolic protein 1) (LCP-1) (LC64P)
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. Protein type: Motility/polarity/chemotaxis; Actin-binding Chromosomal Location of Human Ortholog: 13q14.3 Cellular Component: ruffle; extracellular space; focal adhesion; cytoplasm; stress fiber; actin filament bundle; plasma membrane; actin filament; cytosol; filopodium; actin cytoskeleton; phagocytic cup Molecular Function: actin filament binding; identical protein binding; calcium ion binding; actin binding Biological Process: actin filament bundle formation; cell migration; organ regeneration; regulation of intracellular protein transport; T cell activation during immune response
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