LCP1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	LCP1, Blocking Peptide
Full Product Name	LCP1 Peptide
Product Gene Name	LCP1 blocking peptide
Product Synonym Gene Name	CP64; DKFZp781A23186; FLJ25423; FLJ26114; FLJ39956; L-PLASTIN; LC64P; PLS2; LPL
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	LCP1 peptide (MBS3236749) is used for blocking the activity of LCP1 antibody (MBS3211801)
Molecular Weight	70kDa
OMIM	153430
Product Categories/Family for LCP1 blocking peptide	Peptide
Applications Tested/Suitable for LCP1 blocking peptide	Western Blot (WB)
Related Product Information for LCP1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-LCP1 antibody made Target Description: 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. The L isoform is expressed only in hemopoietic cell lineages. 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
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	MBS3236749 is a blocking peptide targeting LCP1. Also known as LCP1 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
UniProt Primary Accession #	P13796

UniProt Related Accession #	P13796
GenBank Nucleotide #	NM_002298
NCBI Official Full Name	plastin-2
NCBI Official Synonym Full Names	lymphocyte cytosolic protein 1
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
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. 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
Research Articles on LCP1	**1.** LCP1-positive oral squamous cell carcnome samples were correlated closely with the primary tumor size and regional lymph node metastasis.
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