

**LCP1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18836c****Specification**

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**LCP1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P13796](#)**LCP1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3936**Other Names**

Plastin-2, L-plastin, LC64P, Lymphocyte cytosolic protein 1, LCP-1, LCP1, PLS2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LCP1 Antibody (Center) Blocking Peptide - Protein Information****Name** LCP1**Synonyms** PLS2**Function**

Actin-binding protein (PubMed: [16636079](http://www.uniprot.org/citations/16636079), PubMed: [17294403](http://www.uniprot.org/citations/17294403), PubMed: [28493397](http://www.uniprot.org/citations/28493397)). Plays a role in the activation of T-cells in response to costimulation through TCR/CD3 and CD2 or CD28 (PubMed: [17294403](http://www.uniprot.org/citations/17294403)). Modulates the cell surface expression of IL2RA/CD25 and CD69 (PubMed: [17294403](http://www.uniprot.org/citations/17294403)).

**Cellular Location**

Cytoplasm, cytoskeleton. Cell junction. Cell projection. Cell projection, ruffle membrane {ECO:0000250|UniProtKB:Q61233, ECO:0000269|PubMed:16636079}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q61233}; Cytoplasmic side {ECO:0000250|UniProtKB:Q61233}. Note=Relocalizes to the immunological synapse between peripheral blood T-lymphocytes and antibody-presenting cells in response to costimulation through TCR/CD3 and CD2 or CD28 (PubMed:17294403). Associated with the actin cytoskeleton at membrane ruffles. Relocalizes to

actin-rich cell projections upon serine phosphorylation (PubMed:16636079).  
{ECO:0000250|UniProtKB:Q61233, ECO:0000269|PubMed:16636079,  
ECO:0000269|PubMed:17294403}

#### **Tissue Location**

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

#### **LCP1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **LCP1 Antibody (Center) Blocking Peptide - Images**

#### **LCP1 Antibody (Center) Blocking Peptide - Background**

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.

#### **LCP1 Antibody (Center) Blocking Peptide - References**

Wabnitz, G.H., et al. Eur. J. Immunol. 40(9):2437-2449(2010) Janji, B., et al. J. Cell. Mol. Med. 14 (6A), 1264-1275 (2010) :Le Goff, E., et al. Cytoskeleton (Hoboken) 67(5):286-296(2010) Al Tanoury, Z., et al. PLoS ONE 5 (2), E9210 (2010) :Malhotra, A., et al. Diabetes Metab. Res. Rev. 25(8):740-747(2009)