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LCP1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18836c

Specification

LCP1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P13796
Other Accession	Q61233, NP_002289.2
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**70288**
Antigen Region	**306-335**

LCP1 Antibody (Center) - Additional Information

Gene ID 3936

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

Target/Specificity
This LCP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 306-335 amino acids from the Central region of human LCP1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
LCP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

LCP1 Antibody (Center) - Protein Information

Name LCP1

Synonyms PLS2

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

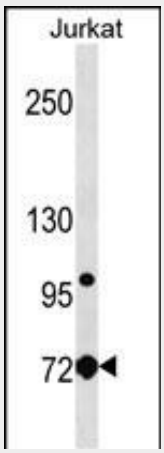
Tissue Location
Detected in intestinal microvilli, hair cell stereocilia, and fibroblast filopodia, in spleen and other lymph node- containing organs. Expressed in peripheral blood T-lymphocytes, neutrophils, monocytes, B-lymphocytes, and myeloid cells

LCP1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LCP1 Antibody (Center) - Images



LCP1 Antibody (Center)(Cat. #AP18836c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the LCP1 antibody detected the LCP1 protein (arrow).

LCP1 Antibody (Center) - Background

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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) - References

Wabnitz, G.H., et al. Eur. J. Immunol. 40(9):2437-2449(2010)
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Le Goff, E., et al. Cytoskeleton (Hoboken) 67(5):286-296(2010)
Al Tanoury, Z., et al. PLoS ONE 5 (2), E9210 (2010) :
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