

## ARG40380 anti-LCP1 / Plastin L antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes LCP1 / Plastin L
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	LCP1 / Plastin L
Species	Human
Immunogen	Recombinant protein corresponding to M1-K444 of Human LCP1.
Conjugation	Un-conjugated
Alternate Names	LC64P; L-PLASTIN; CP64; HEL-S-37; LCP-1; LPL; L-plastin; Lymphocyte cytosolic protein 1; Plastin-2; PLS2

### Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	70 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

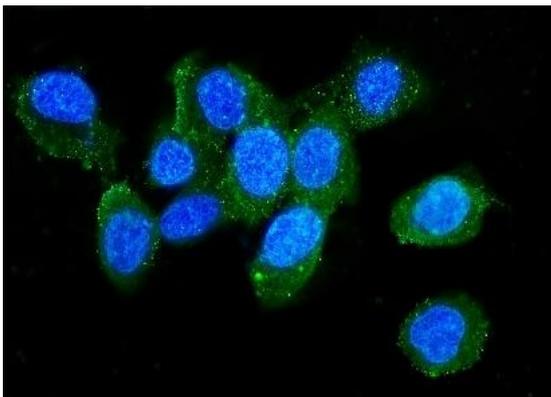
## Bioinformation

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Gene Symbol	LCP1
Gene Full Name	lymphocyte cytosolic protein 1 (L-plastin)
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. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	70 kDa
PTM	Phosphorylated on a serine residue in response to costimulation through TCR/CD3 and CD2 or CD28. Serine phosphorylation promotes association with the actin cytoskeleton and targeting to peripheral cell projections. [UniProt]
Cellular Localization	Cytoplasm, cytoskeleton. Cell junction. Cell projection. Cell projection, ruffle membrane; Peripheral membrane protein; Cytoplasmic side. 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). [UniProt]

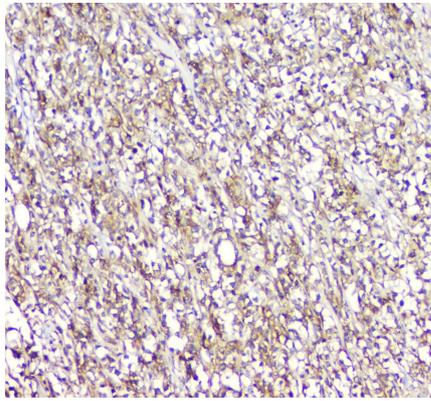
## Images

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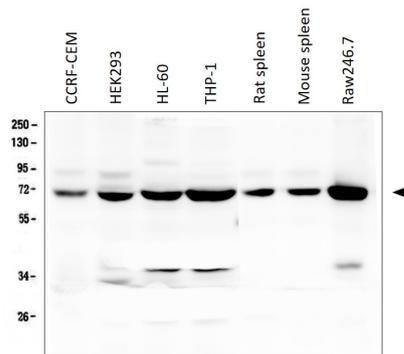
ARG40380 anti-LCP1 / Plastin L antibody ICC/IF image

Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG40380 anti-LCP1 / Plastin L antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



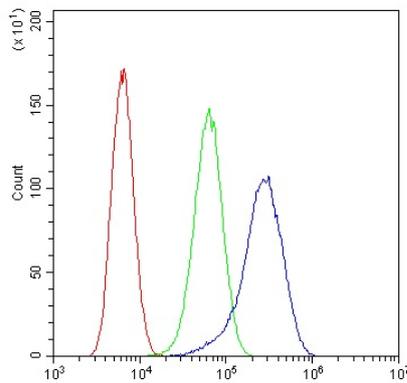
#### ARG40380 anti-LCP1 / Plastin L antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human B lymphocytic tumor tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40380 anti-LCP1 / Plastin L antibody at 1  $\mu\text{g}/\text{ml}$ , overnight at 4°C.



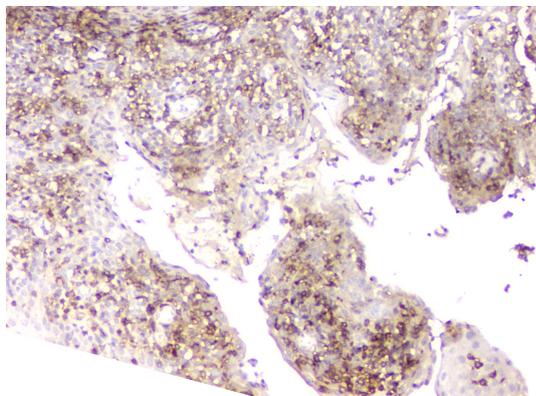
#### ARG40380 anti-LCP1 / Plastin L antibody WB image

Western blot: 50  $\mu\text{g}$  of samples under reducing conditions. Human CCRF-CEM, HEK293, HL-60, THP-1, Rat spleen, Mouse spleen and Raw246.7 cell lysates stained with ARG40380 anti-LCP1 / Plastin L antibody at 0.5  $\mu\text{g}/\text{ml}$ , overnight at 4°C.



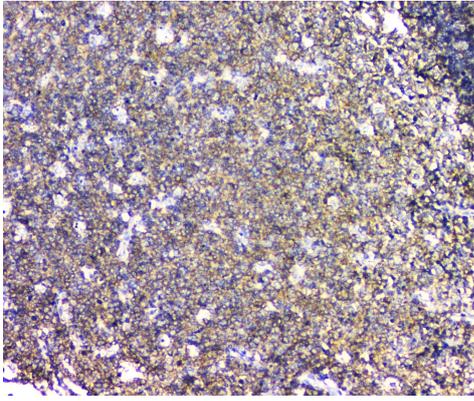
#### ARG40380 anti-LCP1 / Plastin L antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG40380 anti-LCP1 / Plastin L antibody (blue) at 1  $\mu\text{g}/10^6$  cells for 30 min at 20°C, followed by incubation with DyLight<sup>®</sup>488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1  $\mu\text{g}/10^6$  cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



#### ARG40380 anti-LCP1 / Plastin L antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40380 anti-LCP1 / Plastin L antibody at 1  $\mu\text{g}/\text{ml}$ , overnight at 4°C.



**ARG40380 anti-LCP1 / Plastin L antibody IHC-P image**

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40380 anti-LCP1 / Plastin L antibody at 1  $\mu$ g/ml, overnight at 4°C.