

Rabbit anti-Human, Mouse LCP1 Polyclonal Antibody | anti-LCP1 antibody

Phospho-LCP1 (Tyr28) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321344	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot

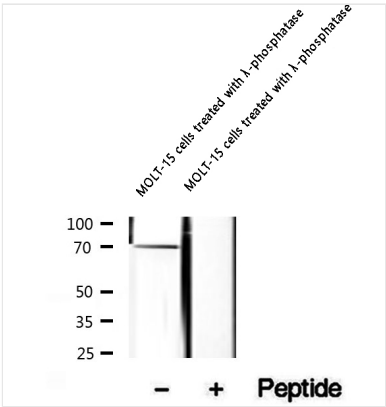
PRODUCT SYNONYMS

LCP1; Polyclonal Antibody; Phospho-LCP1 (Tyr28) Antibody; CP64; L plastin; L-plastin; Larval cuticle protein 1; LC64P; LCP-1; LPL; Lplastin; Lymphocyte cytosolic protein 1; Plastin 2; Plastin-2; PLS2; PLSL_HUMAN; anti-LCP1 antibody

PRODUCT SPECIFICATIONS

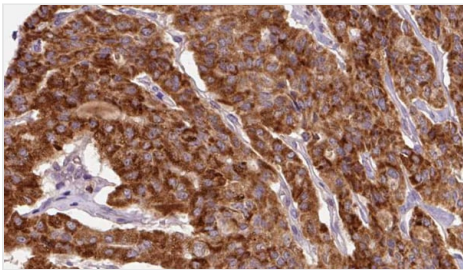
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-LCP1 (Tyr28) antibody detects endogenous levels of LCP1.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	627
Applicable Applications for anti-LCP1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LCP1 around the phosphorylation site of Tyr28.
Subcellular Location	Cytoplasm > Cytoskeleton. Cell Junction. Cell Projection. Cell Projection > Ruffle Membrane. 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. Associated with the actin cytoskeleton at membrane ruffles (By similarity). Relocalizes to actin-rich cell projections upon serine phosphorylation.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (92%), Bovine (83%), Horse (92%), Sheep (92%), Rabbit (92%), Dog (92%)
Conjugation	Unconjugated
Epitope	Phospho Tyr28
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of MOLT-15 cells treated with phosphatase, using Phospho-LCP1 (Tyr28) Antibody.



IHC (Immunohistochemistry)

AAA321344 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-LCP1 antibody

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). Subunit Structure: Monomer. Interacts with AIF1 (By similarity). Interacts with actin (PubMed:28493397). Post-translational Modifications: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167614506
NCBI GeneID	3936
NCBI Accession #	NP_002289.2
NCBI GenBank Nucleotide #	NM_002298.4
UniProt Accession #	P13796; Q5TBN4; B2R613; B4DUA0
Molecular Weight	Observed: 70 kDa Predicted: 71 kDa
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
NCBI Protein Information	plastin-2
UniProt Protein Name	Plastin-2
UniProt Gene Name	LCP1
UniProt Synonym Gene Names	PLS2; LCP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.