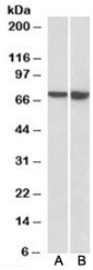
# LCP1 Antibody / L-Plastin Antibody (R34226)

| Catalog No. | Formulation | Size |
|---|---|---|
| R34226-100UG | 0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Goat |
| **Clonality** | Polyclonal (goat origin) |
| **Isotype** | Goat Ig |
| **Purity** | Antigen affinity |
| **Gene ID** | 3936 |
| **Applications** | Western blot: 0.5-3ug/ml<br>ELISA (peptide) LOD: 1:16000 |
| **Limitations** | This LCP1 Antibody / L-Plastin Antibody is available for research use only. |




LCP1 Antibody / L-Plastin Antibody Daudi and U937 WB. Western blot analysis of LCP1 expression was performed using anti-LCP1 antibody in Daudi and U937 cell lysates. LCP1, also known as L-Plastin or Lymphocyte Cytosolic Protein 1, is a calcium-regulated actin-bundling protein predominantly expressed in hematopoietic cells and involved in leukocyte activation, migration, and cytoskeletal remodeling. Lane A: Daudi lysate. Lane B: U937 lysate. A prominent immunoreactive band is detected at approximately 70 kDa in both cell lines, corresponding to the predicted molecular weight of LCP1. Strong expression in B lymphocyte-derived Daudi cells and monocytic U937 cells is consistent with the established role of L-plastin as a marker of hematopoietic lineages and mediator of immune cell function. These results support the utility of LCP1 Antibody / L-Plastin Antibody for studies of inflammation, hematopoiesis, immune cell biology, and cell migration.

## Description

LCP1 Antibody / L-Plastin Antibody recognizes lymphocyte cytosolic protein 1 (LCP1), also known as L-plastin or plastin 2, a calcium-regulated actin-bundling protein predominantly expressed in hematopoietic cells. LCP1 belongs to the plastin

family of actin-binding proteins and functions to stabilize and cross-link filamentous actin, thereby regulating cell shape, adhesion, migration, and immune cell activation. Through these activities, LCP1 enables leukocytes to rapidly reorganize their cytoskeleton in response to inflammatory stimuli and environmental cues. LCP1 Antibody / L-Plastin Antibody is useful for investigating cytoskeletal dynamics and the molecular mechanisms that control immune cell motility and function.

LCP1 Antibody / L-Plastin Antibody is widely employed as a marker of lymphocytes, macrophages, neutrophils, and other hematopoietic cells. Expression of LCP1 is normally restricted to leukocytes, where phosphorylation and calcium-dependent regulation influence integrin activation, chemotaxis, phagocytosis, and cellular adhesion. These processes are essential for host defense, antigen presentation, and tissue repair. Because of its selective expression pattern, LCP1 is frequently used to identify inflammatory infiltrates and characterize immune cell populations in normal tissues and disease specimens. In addition, LCP1 participates in signaling pathways that coordinate actin remodeling and leukocyte activation during innate and adaptive immune responses.

Although originally identified as a leukocyte-specific protein, abnormal expression of LCP1 has been documented in numerous solid tumors and hematologic malignancies. Increased LCP1 levels have been associated with enhanced migration, invasion, and metastatic potential in colorectal, breast, prostate, ovarian, and other cancers. LCP1-mediated cytoskeletal remodeling promotes cellular plasticity and facilitates adaptation to the tumor microenvironment. Aberrant activation of pathways involving Src kinases, integrins, and calcium signaling further contributes to tumor progression and metastatic dissemination. Consequently, LCP1 Antibody / L-Plastin Antibody has become increasingly important for studies of cancer biology and mechanisms underlying cell motility.

LCP1 Antibody / L-Plastin Antibody is a valuable tool for investigations of innate and adaptive immunity, inflammation, hematopoiesis, cytoskeletal remodeling, cell migration, and cancer metastasis. Applications include characterization of immune cell populations, analysis of inflammatory infiltrates, and studies of tumor progression and metastatic behavior. Explore our L-Plastin Antibody / Leukocyte Cytoskeletal Marker Antibody for additional information on this important regulator of leukocyte migration, cytoskeletal remodeling, and immune cell function.

Explore our L-Plastin Antibody / Leukocyte Cytoskeletal Marker Antibody for additional information on this important regulator of leukocyte migration, cytoskeletal remodeling, and immune cell function.

## Application Notes

Optimal dilution of the LCP1 Antibody / L-Plastin Antibody should be determined by the researcher.

## Immunogen

Amino acids HLENAGCNKIGNFST were used as the immunogen for this LCP1 / L-Plastin antibody.

## Storage

Aliquot and store the LCP1 / L-Plastin antibody at -20oC.

## Alternate Names

LCP1 antibody, L-Plastin antibody, Lymphocyte Cytosolic Protein 1 antibody, Plastin 2 antibody, PLS2 antibody, Fimbrin-L antibody

Copyright © NSJ Bioreagents. All rights reserved.