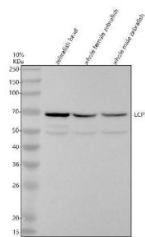


Zebrafish LCP1 Antibody / L-Plastin Antibody (RZ1457)

Catalog No.	Formulation	Size
RZ1457	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Lyophilized from a buffered saline solution containing 2% trehalose. Reconstitute with 0.2 mL distilled water to yield a final antibody concentration of 500 ug/mL.
UniProt	Q6P698
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish LCP1 Antibody / L-Plastin Antibody is available for research use only.



Zebrafish LCP1 Antibody WB. Western blot analysis of LCP1 expression was performed using anti-LCP1 antibody. Electrophoresis was carried out on a 10% SDS-PAGE gel under reducing conditions. Lane 1: zebrafish head tissue lysate. Lane 2: whole female zebrafish tissue lysate. Lane 3: whole male zebrafish tissue lysate. LCP1, also known as L-Plastin or Lymphocyte Cytosolic Protein 1, is a calcium-regulated actin-bundling protein that plays essential roles in leukocyte migration, immune cell activation, and cytoskeletal remodeling. A specific immunoreactive band is detected at approximately 70 kDa in all three samples, corresponding to the expected molecular weight of LCP1. Similar expression in head and whole-body lysates is consistent with the broad distribution of LCP1-positive leukocytes and the widespread requirement for actin cytoskeletal regulation in vertebrate tissues. These results support the utility of Zebrafish LCP1 Antibody for studies of hematopoiesis, innate immunity, inflammation, and cell migration.

Description

Zebrafish 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 leukocytes. LCP1 belongs to the plastin family of cytoskeletal proteins and plays critical roles in actin filament organization, cell adhesion, and cellular motility. Because the functions of LCP1 are highly conserved among vertebrates, zebrafish have become a valuable

model for studying hematopoiesis, immune cell development, and inflammatory responses.

Zebrafish LCP1 Antibody / L-Plastin Antibody is particularly useful for identifying macrophages, neutrophils, and other hematopoietic cell populations. LCP1 expression appears early during embryonic development and persists throughout adulthood in cells of the immune system. By regulating actin filament bundling, LCP1 facilitates leukocyte migration, chemotaxis, phagocytosis, and tissue infiltration. The optical transparency and external development of zebrafish embryos make it possible to visualize LCP1-positive cells *in vivo*, providing unique opportunities to study host defense and tissue repair mechanisms.

Zebrafish models have extensively utilized LCP1 expression to investigate wound healing, infection, and inflammatory processes. Recruitment of LCP1-positive leukocytes is commonly monitored following tissue injury or microbial challenge, making LCP1 one of the most widely used markers of innate immune cells in zebrafish research. In addition to its role in normal immune function, abnormal LCP1 expression has been associated with enhanced migration and invasiveness in several cancers, suggesting broader functions in cytoskeletal remodeling and cell motility.

Zebrafish LCP1 Antibody / L-Plastin Antibody is a valuable tool for studies of hematopoiesis, innate immunity, inflammation, wound healing, and vertebrate development. It supports the characterization of macrophages, neutrophils, and other leukocyte populations while providing insight into the molecular mechanisms that regulate cytoskeletal organization and immune cell migration.

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.

This Zebrafish antibody is part of a broader [Zebrafish / Danio rerio antibody panel](#) offered by NSJ Bioreagents.

Application Notes

The optimal working dilution of the Zebrafish LCP1 Antibody / L-Plastin Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish LCP1 recombinant protein (amino acids M1-E333) was used as the immunogen for the Zebrafish LCP1 Antibody.

Storage

After reconstitution, the Zebrafish LCP1 Antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Alternate Names

Zebrafish LCP1 antibody, Zebrafish L-Plastin antibody, Zebrafish Lymphocyte Cytosolic Protein 1 antibody, Zebrafish Plastin 2 antibody, Zebrafish Fimbrin-L antibody, Zebrafish Actin Bundling Protein antibody

