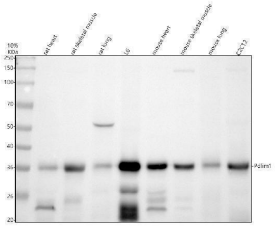
PDLIM1 Antibody / PDZ and LIM domain protein 1 Antibody (FY13523)

Catalog No.	Formulation	Size
FY13523	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O70400
Applications	Western blot: 0.5-1ug/ml
Limitations	For research use only, this PDLIM1 Antibody / PDZ and LIM domain protein 1 Antibody is not intended for diagnostic or therapeutic use.



PDLIM1 Antibody by WB in rat and mouse tissues and cells. Western blot analysis using PDZ and LIM domain protein 1 Antibody shows a principal band near 36 kDa in rat heart (lane 1), skeletal muscle (lane 2), lung (lane 3), and L6 cells (lane 4), and mouse heart (lane 5), skeletal muscle (lane 6), lung (lane 7), and C2C12 cells (lane 8). The observed band matches the approximately 36 kDa predicted mass of PDLIM1. Additional lower-migrating signals are visible in several lanes without an established assignment. Each lane contained 30 ug of reduced lysate resolved by 10% SDS-PAGE; primary antibody was applied at 0.5 ug/mL overnight at 4oC.

Description

PDLIM1 Antibody / PDZ and LIM domain protein 1 Antibody detects PDLIM1, a cytoskeletal adaptor also known as CLP36 or Elfin. The protein contains a PDZ domain that can mediate interactions with structural proteins and a LIM domain that participates in protein-protein interactions. Rather than functioning primarily as an enzyme, PDLIM1 helps assemble molecular complexes at sites associated with actin filaments. This scaffolding role positions it to influence cytoskeletal architecture, mechanical organization, and the coordination of structural and signaling proteins.

PDLIM1 has been linked to alpha-actinin-containing actin structures, including stress fibers and related cytoskeletal assemblies. The protein can contribute to the organization of contractile and adhesive systems by bringing together partners that would otherwise be separated in the cell. Its behavior depends on the availability of binding partners, the

state of the actin network, and the mechanical demands placed on the tissue. The broader PDZ-LIM protein family contains several related adaptors, but individual members differ in their localization and interaction profiles. The PDZ and LIM domain protein 1 Antibody designation reflects the full protein name associated with the PDLIM1 target.

The organization of the actin cytoskeleton is essential for maintaining cell shape, transmitting force, and coordinating responses to environmental cues. PDLIM1 has therefore been examined in the context of cytoskeletal remodeling and signaling processes that depend on structural organization. Its contributions can vary among cell types and should not be reduced to a single universal pathway. Understanding PDLIM1 also requires distinguishing it from other PDLIM family proteins with related domain architectures. NSJ Bioreagents offers the PDLIM1 Antibody for this adaptor protein. A PDLIM1 Antibody is relevant to the molecular organization of actin-associated complexes and the relationship between cellular structure and signaling.

Explore related research targets in our Cell Biology Antibodies collection.

Application Notes

The ideal working dilution for the PDLIM1 Antibody / PDZ and LIM domain protein 1 Antibody should be established by the investigator based on assay conditions.

Immunogen

The PDLIM1 Antibody was generated using a synthetic peptide corresponding to a sequence in the middle region of mouse CLP36/PDLIM1.

Storage

After reconstitution, keep the PDLIM1 Antibody at 4oC for up to one month. Alternatively, store aliquots at -20oC for up to six months. Avoid multiple freezing and thawing cycles.

Alternate Names

PDLIM1 antibody, PDZ and LIM domain protein 1 antibody, PDZ and LIM domain 1 (elfin) antibody, Clim1 antibody, C-terminal LIM domain protein 1 antibody, Elfin antibody, LIM domain protein CLP-36 antibody

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