CLP36 (51): sc-136420



The Power to Question

BACKGROUND

CLP36, also known as PDLIM1, CLIM-1 or Elfin, is a 329 amino acid cytoplasmic protein that associates with Actin stress fibers at the cytoskeleton. Expressed at high levels in skeletal muscle and heart and at lower levels in colon, small intestine, spleen, lung, placenta, kidney, liver, thymus and pancreas, CLP36 functions as a cytoskeletal protein that is thought to act as an adaptor, bringing target proteins to the cytoskeleton. Specifically, CLP36 interacts with Clik1 (α kinase) and recruits Clik1 to α -actinin-1, thereby facilitating the association of Clik1 with Actin stress fibers. CLP36 contains one PDZ domain and one LIM zinc-binding domain through which it conveys its protein-protein binding capabilities. Human CLP36 shares 88% sequence similarity with its rat counterpart, suggesting a conserved function between species.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PDLIM1 (human) mapping to 10q23.33; Pdlim1 (mouse) mapping to 19 C3.

SOURCE

CLP36 (51) is a mouse monoclonal antibody raised against amino acids 73-237 of CLP36 of rat origin.

PRODUCT

Each vial contains 200 μg lgG_1 lambda light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CLP36 (51) is recommended for detection of CLP36 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for CLP36 siRNA (h): sc-72927, CLP36 siRNA (m): sc-72928, CLP36 shRNA Plasmid (h): sc-72927-SH, CLP36 shRNA Plasmid (m): sc-72928-SH, CLP36 shRNA (h) Lentiviral Particles: sc-72927-V and CLP36 shRNA (m) Lentiviral Particles: sc-72928-V.

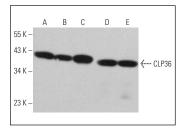
Molecular Weight of CLP36: 36 kDa.

Positive Controls: Sol8 cell lysate: sc-2249, HeLa whole cell lysate: sc-2200 or A-10 cell lysate: sc-3806.

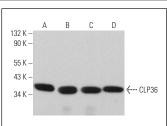
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgGλ BP-HRP: sc-516132 or m-lgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgGλ BP-FITC: sc-516185 or m-lgGλ BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA







CLP36 (51): sc-136420. Western blot analysis of CLP36 expression in HeLa (A), Sol8 (B), A-10 (C) and SJRH30 (D) whole cell lysates. Detection reagent used: m-IgG\(\text{BP-HRP}\) (Cruz Marker): sc-516132-CM.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures. Not for resale.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.