

ALP (S-17): sc-79839

BACKGROUND

ALP (actinin-associated LIM protein), also known as PDLIM3 (PDZ and LIM domain protein 3) is a 364 amino acid protein that contains one LIM zinc-binding domain and one PDZ domain and localizes to the cytoplasm, as well as to myofiber Z-lines. Existing as three alternatively spliced isoforms, two of which exhibit tissue-specific expression in skeletal muscle and heart, ALP interacts with α -actinin-2 and, via this interaction, is thought to play a role in actin filament organization, specifically regulating the association of actin filaments arrays with muscle cells. The gene encoding ALP maps to a region on human chromosome 4 that is associated with facioscapulohumeral muscular dystrophy, suggesting that defects in the ALP gene may be involved in the pathogenesis of muscular dystrophy.

CHROMOSOMAL LOCATION

Genetic locus: PDLIM3 (human) mapping to 4q35.1; Pdlim3 (mouse) mapping to 8 B1.1.

SOURCE

ALP (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ALP of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79839 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ALP (S-17) is recommended for detection of ALP 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ALP (S-17) is also recommended for detection of ALP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ALP siRNA (h): sc-72485, ALP siRNA (m): sc-72486, ALP shRNA Plasmid (h): sc-72485-SH, ALP shRNA Plasmid (m): sc-72486-SH, ALP shRNA (h) Lentiviral Particles: sc-72485-V and ALP shRNA (m) Lentiviral Particles: sc-72486-V.

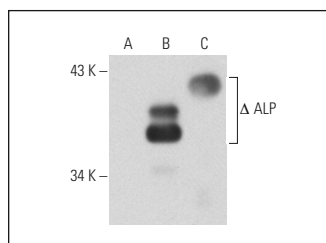
Molecular Weight of ALP: 39 kDa.

Positive Controls: ALP (h): 293T Lysate: sc-114160 or rat skeletal muscle extract: sc-364810.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ALP (S-17): sc-79839. Western blot analysis of ALP expression in non-transfected: sc-117752 (A) and truncated human ALP transfected: sc-114160 (B) 293T whole cell lysates and rat skeletal muscle tissue extract (C).

RESEARCH USE

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

PROTOCOLS

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


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Try **ALP (B-10): sc-365765** or **ALP (C-8): sc-373737**, our highly recommended monoclonal alternatives to ALP (S-17).