

γ -parvin (H-141): sc-292916

BACKGROUND

The parvin family, including α -parvin, β -parvin and γ -parvin, link integrins and associated proteins with intracellular pathways, which regulate actin cytoskeletal dynamics and cell survival. All three family members localize to focal adhesions and function in cell adhesion, spreading, motility and survival through interactions with partners, such as integrin-linked kinase (ILK), paxillin, α -actinin and testicular kinase 1. α -parvin is widely expressed, with highest levels detected in the skeletal muscle, heart, liver and kidney. A complex made up of α -parvin, ILK and the LIM protein PINCH-1 is critical for cell survival in a variety of cells, including certain cancer cells, kidney podocytes and cardiac myocytes. β -parvin links initial integrin signals to rapid actin reorganization, thereby playing a critical role in fibroblast migration. The ILK- γ -parvin complex is essential for the establishment of cell polarity required for leukocyte migration.

REFERENCES

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5. Zhang, Y., et al. 2004. Distinct roles of two structurally closely related focal adhesion proteins, α -parvins and β -parvins, in regulation of cell morphology and survival. *J. Biol. Chem.* 279: 41695-41705.
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CHROMOSOMAL LOCATION

Genetic locus: PARVG (human) mapping to 22q13.31; Parvg (mouse) mapping to 15 E2.

SOURCE

γ -parvin (H-141) is a rabbit polyclonal antibody raised against amino acids 1-141 mapping at the N-terminus of γ -parvin 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.

APPLICATIONS

γ -parvin (H-141) is recommended for detection of γ -parvin of mouse 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).

Suitable for use as control antibody for γ -parvin siRNA (h): sc-61302, γ -parvin siRNA (m): sc-61304, γ -parvin shRNA Plasmid (h): sc-61302-SH, γ -parvin shRNA Plasmid (m): sc-61304-SH, γ -parvin shRNA (h) Lentiviral Particles: sc-61302-V and γ -parvin shRNA (m) Lentiviral Particles: sc-61304-V.

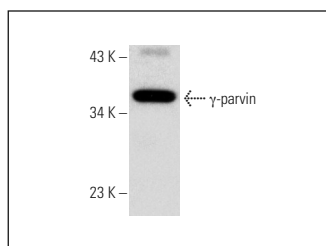
Molecular Weight of γ -parvin: 37 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, Jurkat whole cell lysate: sc-2204 or RAW 264.7 whole cell lysate: sc-2211.

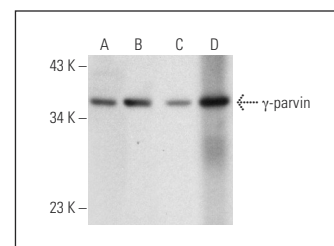
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



γ -parvin (H-141): sc-292916. Western blot analysis of γ -parvin expression in HL-60 whole cell lysate.



γ -parvin (H-141): sc-292916. Western blot analysis of γ -parvin expression in Jurkat (A), RAW 264.7 (B) and J774.A1 (C) whole cell lysates and mouse spleen tissue extract (D).

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.

PROTOCOLS

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