SANTA CRUZ BIOTECHNOLOGY, INC.

γ-parvin (M-141): sc-292917



BACKGROUND

The parvin family, including α -parvin, β -parvin and γ -parvin, link integrins and associated proteins with intracellular pathways, which regulate actin cyto-skeletal 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), pax-illin, 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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- Yamaji, S. et al. 2004. Affixin interacts with alpha-actinin and mediates integrin signaling for reorganization of F-actin induced by initial cell-substrate interaction. J. Cell Biol. 165: 539-551.
- 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 (mouse) mapping to 15 E2.

SOURCE

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

PRODUCT

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

APPLICATIONS

 γ -parvin (M-141) is recommended for detection of γ -parvin of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 (m): sc-61304, γ -parvin shRNA Plasmid (m): sc-61304-SH and γ -parvin shRNA (m) Lentiviral Particles: sc-61304-V.

Molecular Weight of y-parvin: 37 kDa.

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.

STORAGE

Store at 4° C, **D0 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.