γ-parvin (D-20): sc-50766



The Power to Question

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 skeletal muscle, heart, liver and kidney. A complex composed 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., Chen, K., Tu, Y. and Wu, C. 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.

CHROMOSOMAL LOCATION

Genetic locus: PARVG (human) mapping to 22q13.2-q13; Parvg (mouse) mapping to 15 E2.

SOURCE

 γ -parvin (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of γ -parvin of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-50766 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

 $\gamma\text{-parvin}$ (D-20) is recommended for detection of $\gamma\text{-parvin}$ of mouse, rat and human 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).

 γ -parvin (D-20) is also recommended for detection of γ -parvin in additional species, including canine.

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.

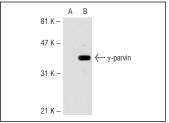
Molecular Weight of γ-parvin: 37 kDa.

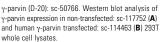
Positive Controls: mouse spleen.

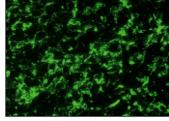
RECOMMENDED SECONDARY REAGENTS

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







γ-parvin (D-20): sc-50766. Immunofluorescence staining of normal mouse spleen frozen section showing cytoplasmic staining.

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.