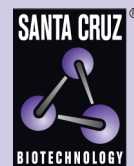


# $\gamma$ -parvin (G-8): sc-393593



The Power to Question

## BACKGROUND

The parvin family, including  $\alpha$ -parvin,  $\beta$ -parvin and  $\gamma$ -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,  $\alpha$ -actinin and testicular kinase 1.  $\alpha$ -parvin is widely expressed, with highest levels detected in the skeletal muscle, heart, liver and kidney. A complex made up of  $\alpha$ -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.  $\beta$ -parvin links initial integrin signals to rapid Actin reorganization, thereby playing a critical role in fibroblast migration. The ILK- $\gamma$ -parvin complex is essential for the establishment of cell polarity required for leukocyte migration.

## REFERENCES

1. Oliski, T.M., et al. 2001. Parvin, a 42 kDa focal adhesion protein, related to the  $\alpha$ -actinin superfamily. *J. Cell Sci.* 114: 525-538.
2. Korenbaum, E., et al. 2001. Genomic organization and expression profile of the parvin family of focal adhesion proteins in mice and humans. *Gene* 279: 69-79.
3. Aboulaich, N., et al. 2004. Vectorial proteomics reveal targeting, phosphorylation and specific fragmentation of polymerase I and transcript release factor (PTRF) at the surface of caveolae in human adipocytes. *Biochem. J.* 383: 237-248.

## CHROMOSOMAL LOCATION

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

## SOURCE

$\gamma$ -parvin (G-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 51-70 near the N-terminus of  $\gamma$ -parvin of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

$\gamma$ -parvin (G-8) is available conjugated to agarose (sc-393593 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393593 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393593 PE), fluorescein (sc-393593 FITC), Alexa Fluor<sup>®</sup> 488 (sc-393593 AF488), Alexa Fluor<sup>®</sup> 546 (sc-393593 AF546), Alexa Fluor<sup>®</sup> 594 (sc-393593 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-393593 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-393593 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-393593 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393593 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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## APPLICATIONS

$\gamma$ -parvin (G-8) is recommended for detection of  $\gamma$ -parvin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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  $\gamma$ -parvin siRNA (h): sc-61302,  $\gamma$ -parvin siRNA (m): sc-61304,  $\gamma$ -parvin shRNA Plasmid (h): sc-61302-SH,  $\gamma$ -parvin shRNA Plasmid (m): sc-61304-SH,  $\gamma$ -parvin shRNA (h) Lentiviral Particles: sc-61302-V and  $\gamma$ -parvin shRNA (m) Lentiviral Particles: sc-61304-V.

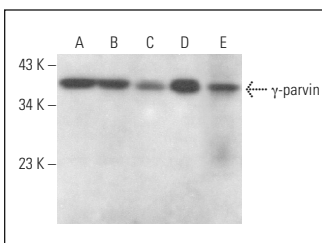
Molecular Weight of  $\gamma$ -parvin: 37 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, F9 cell lysate: sc-2245 or HL-60 whole cell lysate: sc-2209.

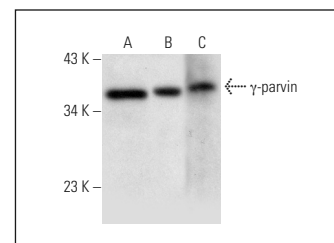
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



$\gamma$ -parvin (G-8): sc-393593. Western blot analysis of  $\gamma$ -parvin expression in HL-60 (A), Jurkat (B), RAW 264.7 (C) and J774.A1 (D) whole cell lysates and rat thymus tissue extract (E).



$\gamma$ -parvin (G-8): sc-393593. Western blot analysis of  $\gamma$ -parvin expression in I-11.15 (A), F9 (B) and rat spleen tissue extract (C).

## 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](http://www.scbt.com) for detailed protocols and support products.