SANTA CRUZ BIOTECHNOLOGY, INC.

# γ-parvin (h3): 293T Lysate: sc-129407

SANTA CRUZ BIOTECHNOLOGY

*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


1. Olski, T.M., Noegel, A.A. and Korenbaum, E. 2001. Parvin, a 42 kDa focal adhesion protein, related to the α-actinin superfamily. J. Cell Sci. 114: 525-538.
2. Korenbaum, E., Olski, T.M. and Noegel, A.A. 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., Vainonen, J.P., Stralfors, P. and Vener, A.V. 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.
4. Yamaji, S., Suzuki, A., Kanamori, H., Mishima, W., Yoshimi, R., Takasaki, H., Takabayashi, M., Fujimaki, K., Fujisawa, S., Ohno, S. and Ishigatsubo, Y. 2004. Affixin interacts with α-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., 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 22q13.31.

## PRODUCT

γ-parvin (h3): 293T Lysate represents a lysate of human γ-parvin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

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

## APPLICATIONS

γ-parvin (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive γ-parvin antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## RESEARCH USE

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