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palladin (m): 293 Lysate: sc-179285

BACKGROUND

Palladin, also known as PALLD, PNCA1 or SIH002, is a 1,383 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains 5 immunoglobulin (Ig)-like domains. Expressed as several alternatively spliced isoforms that are found in kidney, prostate, ovary and colon, palladin functions as a cytoskeletal protein that is required both for the organization of the Actin cytoskeleton, as well as for the establishment of proper cell motility, cell adhesion and cell-matrix interactions. Palladin interacts with Eps8, LASP-1 and VASP and may also play a role in cytoskeletal scaffolding and Actin remodeling. In response to DNA damage, palladin is subject to phosphorylation on select serine residues. Defects in the gene encoding palladin may increase genetic susceptibility to pancreatic cancer, strongly suggesting a role for palladin in tumorigenesis.

REFERENCES

1. Parast, M.M. and Otey, C.A. 2000. Characterization of palladin, a novel protein localized to stress fibers and cell adhesions. *J. Cell Biol.* 150: 643-656.
2. Mykkänen, O.M., et al. 2001. Characterization of human palladin, a micro-filament-associated protein. *Mol. Biol. Cell* 12: 3060-3073.
3. Eberle, M.A., et al. 2002. A new susceptibility locus for autosomal dominant pancreatic cancer maps to chromosome 4q32-34. *Am. J. Hum. Genet.* 70: 1044-1048.
4. Moriyama, K. and Bonifacino, J.S. 2002. Palladin is a component of a multi-protein complex involved in the biogenesis of lysosome-related organelles. *Traffic* 3: 666-677.
5. Rönty, M., et al. 2004. Molecular analysis of the interaction between palladin and α -actinin. *FEBS Lett* 566: 30-34.
6. Rönty, M., et al. 2005. Involvement of palladin and α -actinin in targeting of the Abl/Arg kinase adaptor ArgBP2 to the Actin cytoskeleton. *Exp. Cell Res.* 310: 88-98.

CHROMOSOMAL LOCATION

Genetic locus: Palld (mouse) mapping to 8 B3.1.

PRODUCT

palladin (m): 293 Lysate represents a lysate of mouse palladin transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

palladin (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive palladin antibodies. Recommended use: 10-20 μ l per lane.

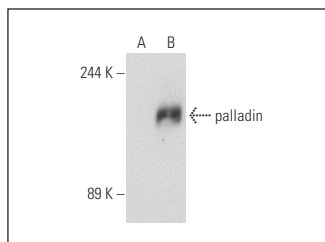
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

palladin (G-2): sc-166563 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse palladin expression in palladin transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



palladin (G-2): sc-166563. Western blot analysis of palladin expression in non-transfected: sc-110760 (A) and mouse palladin transfected: sc-179285 (B) 293 whole cell lysates.

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.

RESEARCH USE

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

PROTOCOLS

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