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plakophilin 2 (h): 293T Lysate: sc-372976

BACKGROUND

Plakophilins 1, 2, 3 and 4 (PKP1-4) influence development and participate in linking cadherins to cytoskeletal intermediate filaments. Plakophilins 1-4 contain arm-repeat (armadillo) domains, and localize to nuclei and cell desmosomes (cell-cell junctions found in suprabasal layers of stratifying epithelia that undergo mechanical stress). Plakophilin-1 mediates increases in desmosomal protein content, desmosome assembly, and regulation of cell migration. Plakophilin-2 is important for desmosome assembly and is an essential morphogenic factor and architectural component of the heart. Plakophilin-3 plays a role in both desmosome-dependent adhesion and signaling pathways. Plakophilin-4 is a component of desmosomal adhesion plaques that regulates junctional plaque organization and cadherin function.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PKP2 (human) mapping to 12p11.21.

PRODUCT

plakophilin 2 (h): 293T Lysate represents a lysate of human plakophilin 2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

plakophilin 2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive plakophilin 2 antibodies. Recommended use: 10-20 μ l per lane.

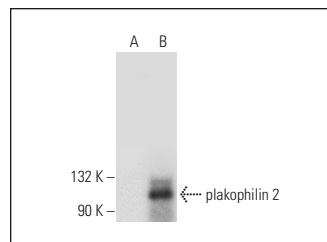
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

plakophilin 2 (C-1): sc-393711 is recommended as a positive control antibody for Western Blot analysis of enhanced human plakophilin 2 expression in plakophilin 2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

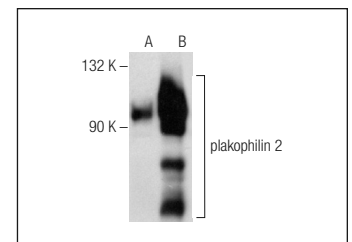
RECOMMENDED SUPPORT REAGENTS

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



plakophilin 2 (C-1): sc-393711. Western blot analysis of plakophilin 2 expression in non-transfected: sc-117752 (A) and human plakophilin 2 transfected: sc-372976 (B) 293T whole cell lysates.



plakophilin 2 (28): sc-136039. Western blot analysis of plakophilin 2 expression in non-transfected: sc-117752 (A) and human plakophilin 2 transfected: sc-372976 (B) 293T 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.