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PCIF1 (m): 293T Lysate: sc-127304

BACKGROUND

PCIF1 (phosphorylated CTD-interacting factor 1), also known as C20orf67, is a 704 amino acid nuclear protein that contains one WW domain. Expressed throughout the body, PCIF1 is thought to play a role in transcription elongation and may be involved in coupling transcription to pre-mRNA processing, specifically by interacting with the phosphorylated carboxy-terminal domain (CTD) of Pol II. Additionally, PCIF1 interacts with and inhibits the activity of PDX-1 (pancreatic and duodenal homeobox-1), thereby regulating β cell differentiation and, ultimately, contributing to normal pancreatic development. Via its ability to influence pancreatic organogenesis, PCIF1 may be involved in the pathogenesis of diabetes and may be a potential target for the therapeutic treatment of diabetes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Pcif1* (mouse) mapping to 2 H3.

PRODUCT

PCIF1 (m): 293T Lysate represents a lysate of mouse PCIF1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PCIF1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PCIF1 antibodies. Recommended use: 10-20 μ l per lane.

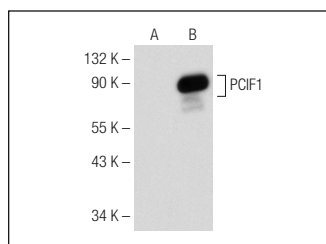
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PCIF1 (A-9): sc-374406 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PCIF1 expression in PCIF1 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



PCIF1 (A-9): sc-374406. Western blot analysis of PCIF1 expression in non-transfected: sc-117752 (A) and mouse PCIF1 transfected: sc-127304 (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.