PCIF1 (A-9): sc-374406

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

CHROMOSOMAL LOCATION
Genetic locus: PCIF1 (human) mapping to 20q13.12; PCIF1 (mouse) mapping to 2 H3.

SOURCE
PCIF1 (A-9) is a mouse monoclonal antibody raised against a peptide mapping within an internal region of PCIF1 of human origin.

PRODUCT
Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PCIF1 (A-9) is available conjugated to agarose (sc-374406 AC), 500 µg/0.25 ml agarose in 1 ml for WB, HRP; and ELISA; or to either phycoerythrin (sc-374406 PE), fluorescein (sc-374406 FITC), Alexa Fluor® 488 (sc-374406 AF488), Alexa Fluor® 546 (sc-374406 AF546), Alexa Fluor® 594 (sc-374406 AF594) or Alexa Fluor® 647 (sc-374406 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374406 AF680) or Alexa Fluor® 790 (sc-374406 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-374406 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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

APPLICATIONS
PCIF1 (A-9) is recommended for detection of PCIF1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PCIF1 (A-9) is also recommended for detection of PCIF1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PCIF1 siRNA (h): sc-76088, PCIF1 siRNA (m): sc-152111, PCIF1 shRNA Plasmid (h): sc-76088-HS, PCIF1 shRNA Plasmid (m): sc-152111-SH, PCIF1 shRNA (h) Lentiviral Particles: sc-76088-V and PCIF1 shRNA (m) Lentiviral Particles: sc-152111-V.

Molecular Weight of PCIF1: 80 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, BYDP whole cell lysate: sc-364368 or TK-1 whole cell lysate: sc-364798.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™

DATA

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.