**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 therapeutic treatment of diabetes.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PCIF1 (human) mapping to 20q13.12; Pcf1 (mouse) mapping to 2 H3.

**SOURCE**

PCIF1 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PCIF1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Blocking peptide available for competition studies, sc-85810 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

PCIF1 (E-18) is recommended for detection of PCIF1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PCIF1 (E-18) 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-76088SH, 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.

**DATA**

**STORAGE**

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

**PROTOCOLS**

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