

# PRIC285 (G-17): sc-86799

## BACKGROUND

PRIC285 (peroxisomal proliferator-activated receptor A-interacting complex 285 kDa protein), also known as PPAR $\gamma$  DNA-binding domain-interacting protein 1 (PDIP1), is a 2649 amino acid nuclear helicase protein that may be a part of the peroxisome proliferator activated receptor  $\alpha$  interacting (PRIC) complex. PRIC285 acts as a transcriptional co-activator for many nuclear receptors, such as RXR $\alpha$ , TR $\alpha$ 1, TR $\beta$ 1, PPAR $\alpha$  and PPAR $\gamma$ . PRIC285 contains a zinc finger and five LXXLL motifs, which are associated with protein-protein interactions during transcription regulation, however these motifs are not required for interaction with PPAR $\gamma$ . PRIC285 is expressed in skeletal muscle, spleen, colon, liver, heart, pancreas, lung, kidney, placenta and peripheral blood lymphocytes. There are three isoforms of PRIC285 that are produced as a result of alternative splicing events.

## REFERENCES

- Green, S. 1995. PPAR: a mediator of peroxisome proliferator action. *Mutat. Res.* 333: 101-109.
- Latruffe, N. and Vamecq, J. 1997. Peroxisome proliferators and peroxisome proliferator activated receptors (PPARs) as regulators of lipid metabolism. *Biochimie* 79: 81-94.
- Qi, C., et al. 2000. Peroxisome proliferator-activated receptors, coactivators, and downstream targets. *Cell Biochem. Biophys.* 32: 187-204.
- Surapureddi, S., et al. 2002. Identification of a transcriptionally active peroxisome proliferator-activated receptor  $\alpha$ -interacting cofactor complex in rat liver and characterization of PRIC285 as a coactivator. *Proc. Natl. Acad. Sci. USA* 99: 11836-11841.
- Plevin, M.J., et al. 2005. The LxxLL motif: a multifunctional binding sequence in transcriptional regulation. *Trends Biochem. Sci.* 30: 66-69.
- Wang, Y., et al. 2006. Tyrosine phosphorylated Par3 regulates epithelial tight junction assembly promoted by EGFR signaling. *EMBO J.* 25: 5058-5070.
- Tomaru, T., et al. 2006. Isolation and characterization of a transcriptional cofactor and its novel isoform that bind the deoxyribonucleic acid-binding domain of peroxisome proliferator-activated receptor- $\gamma$ . *Endocrinology* 147: 377-388.
- Sarkar, J., et al. 2007. Transcription coactivator PRIP, the peroxisome proliferator-activated receptor (PPAR)-interacting protein, is redundant for the function of nuclear receptors PPAR $\alpha$  and CAR, the constitutive androstane receptor, in mouse liver. *Gene Expr.* 13: 255-269.
- Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611265. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: PRIC285 (human) mapping to 20q13.33.

## STORAGE

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

## SOURCE

PRIC285 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRIC285 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86799 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PRIC285 (G-17) is recommended for detection of PRIC285 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

PRIC285 (G-17) is also recommended for detection of PRIC285 in additional species, including canine.

Suitable for use as control antibody for PRIC285 siRNA (h): sc-76246, PRIC285 shRNA Plasmid (h): sc-76246-SH and PRIC285 shRNA (h) Lentiviral Particles: sc-76246-V.

Molecular Weight of PRIC285: 295/285/231 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.