

# COUP-TFI (N-19): sc-6575

## BACKGROUND

COUP (chicken ovalbumin upstream promoter) transcription factors have been cloned in several species and identified as orphan members of the steroid/thyroid hormone receptor superfamily. COUP-TFI (also designated COUP or EAR-3) and ARP-1 (also designated COUP-TFII) exhibit highly regulated and overlapping expression in most tissues. COUP-TFs are highly expressed in the developing and central nervous system, suggesting that these factors may be important in neural development and differentiation. COUP-TFs can compete for binding to response elements which are common to other members of this family, including RAR, RXR, PPAR, HNF-4, VDR and TR. They have been shown to act as negative regulators as well as initiators of transcription.

## CHROMOSOMAL LOCATION

Genetic locus: NR2F1 (human) mapping to 5q15; Nr2f1 (mouse) mapping to 13 C1.

## SOURCE

COUP-TFI (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of COUP-TFI 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6575 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6575 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

COUP-TFI (N-19) is recommended for detection of COUP-TFI 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).

COUP-TFI (N-19) is also recommended for detection of COUP-TFI in additional species, including bovine and porcine.

Suitable for use as control antibody for COUP-TFI siRNA (h): sc-38820, COUP-TFI siRNA (m): sc-38821, COUP-TFI shRNA Plasmid (h): sc-38820-SH, COUP-TFI shRNA Plasmid (m): sc-38821-SH, COUP-TFI shRNA (h) Lentiviral Particles: sc-38820-V and COUP-TFI shRNA (m) Lentiviral Particles: sc-38821-V.

COUP-TFI (N-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of COUP-TFI: 46 kDa.

Positive Controls: RAT2 whole cell lysate: sc-364198, NIH/3T3 whole cell lysate: sc-2210 or Hep G2 cell lysate: sc-2227.

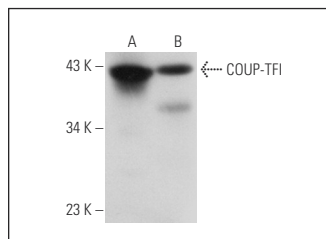
## RESEARCH USE

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

## STORAGE

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

## DATA



COUP-TFI (N-19): sc-6575. Western blot analysis of COUP-TFI expression in RAT2 (A) and NIH/3T3 (B) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Shibata, H., et al. 2001. Expression profiles of COUP-TF, DAX-1, and SF-1 in the human adrenal gland and adrenocortical tumors: possible implications in steroidogenesis. *Mol. Genet. Metab.* 74: 206-216.
- Takahashi, S., et al. 2002. Co-operation of the transcription factor hepatocyte nuclear factor-4 with Sp1 or Sp3 leads to transcriptional activation of the human haem oxygenase-1 gene promoter in a hepatoma cell line. *Biochem. J.* 367: 641-652.
- Geng, C.D. and Vedeckis, W.V. 2004. Steroid-responsive sequences in the human glucocorticoid receptor gene 1A promoter. *Mol. Endocrinol.* 18: 912-924.
- Gallais, R., et al. 2007. Deoxyribonucleic acid methyl transferases 3a and 3b associate with the nuclear orphan receptor COUP-TFI during gene activation. *Mol. Endocrinol.* 21: 2085-2098.
- Selva, D.M., et al. 2007. Monosaccharide-induced lipogenesis regulates the human hepatic sex hormone-binding globulin gene. *J. Clin. Invest.* 117: 3979-3987.
- Le, D., et al. 2008. COUP-TFI modulates estrogen signaling and influences proliferation, survival and migration of breast cancer cells. *Breast Cancer Res. Treat.* 110: 69-83.

## PROTOCOLS

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

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Try **COUP-TFI (H-11): sc-74561** or **COUP-TFI (G-6): sc-74560**, our highly recommended monoclonal alternatives to COUP-TFI (N-19).