

COUP-TFI (T-19): sc-6577

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 (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near 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-6577 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6577 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

COUP-TFI (T-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 (T-19) is also recommended for detection of COUP-TFI in additional species, including canine, 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 (T-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.

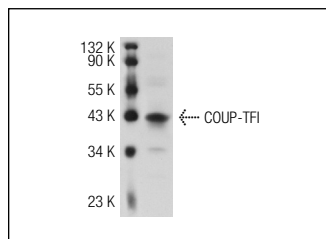
RESEARCH USE

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 (T-19): sc-6577. Western blot analysis of COUP-TFI expression in Rat2 whole cell lysate.

SELECT PRODUCT CITATIONS

- Eubank, D.W., et al. 2001. Peroxisome proliferator-activated receptor γ and chicken ovalbumin upstream promoter transcription factor II negatively regulate the phosphoenolpyruvate carboxykinase promoter via a common element. *J. Biol. Chem.* 276: 30561-30569.
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- Rohr, O., et al. 2003. Recruitment of Tat to heterochromatin protein HP1 via interaction with CtIP2 inhibits human immunodeficiency virus type 1 replication in microglial cells. *J. Virol.* 77: 5415-5427.
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- Marban, C., et al. 2005. COUP-TF interacting protein 2 represses the initial phase of HIV-1 gene transcription in human microglial cells. *Nucleic Acids Res.* 33: 2318-2331.
- Myers, S.A., et al. 2006. The chicken ovalbumin upstream promoter-transcription factors modulate genes and pathways involved in skeletal muscle cell metabolism. *J. Biol. Chem.* 281: 24149-24160.

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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 (T-19).