ARP-1 (T-19): sc-6578



The Power to Question

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 reg-ulated 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.

CHORMOSOMAL LOCATION

Genetic locus: NR2F2 (human) mapping to 15q26.2; Nr2f2 (mouse) mapping to 7 D1.

SOURCE

ARP-1 (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ARP-1 of human origin.

PRODUCT

Each vial contains 200 μg lgG 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-6578 X, 200 $\mu g/0.1$ ml.

Blocking peptide available for competition studies, sc-6578 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARP-1 (T-19) is recommended for detection of ARP-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Suitable for use as control antibody for ARP-1 siRNA (h): sc-38818, ARP-1 siRNA (m): sc-38819, ARP-1 shRNA Plasmid (h): sc-38818-SH, ARP-1 shRNA Plasmid (m): sc-38819-SH, ARP-1 shRNA (h) Lentiviral Particles: sc-38818-V and ARP-1 shRNA (m) Lentiviral Particles: sc-38819-V.

ARP-1 (T-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ARP-1: 45 kDa.

Positive Controls: Ramos nuclear extract: sc-2153.

STORAGE

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

RESEARCH USE

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

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.
- 2. Liberati, C., et al. 2001. Cooperation and competition between the binding of COUP-TFII and NF-Y on human ϵ and γ -globin gene promoters. J. Biol. Chem. 276: 41700-41709.
- 3. 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.
- 4. Tanabe, O., et al. 2002. An embryonic/fetal β -type globin gene repressor contains a nuclear receptor TR2/TR4 heterodimer. EMBO J. 21: 3434-3442.
- 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.
- Cabrero, A., et al. 2003. Down-regulation of acyl-CoA oxidase gene expression in heart of troglitazone-treated mice through a mechanism involving chicken Ovalbumin upstream promoter transcription factor II. Mol. Pharmacol. 64: 764-772.
- 7. Cabrero, A., et al. 2003. Down-regulation of acyl-CoA oxidase gene expression and increased NFκB activity in etomoxir-induced cardiac hypertrophy. J. Lipid Res. 44: 388-398.
- Selva, D.M. 2005. Repression of the human sex hormone-binding globulin gene in Sertoli cells by upstream stimulatory transcription factors. J. Biol. Chem. 280: 4462-4468.
- Wu, X., et al. 2011. COUP-TFII switches responses of venous endothelium to atherosclerotic factors through controlling the profile of various inherent genes expression. J. Cell. Biochem. 112: 256-264.

PROTOCOLS

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



Try ARP-1 (E-11): sc-271940 or ARP-1 (C-10): sc-393481, our highly recommended monoclonal alternatives to ARP-1 (T-19).

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com