

ARP-1 (N-19): sc-6576

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

SOURCE

ARP-1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ARP-1 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-6576 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6576 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARP-1 (N-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 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).

ARP-1 (N-19) is also recommended for detection of ARP-1 in additional species, including canine, bovine and porcine.

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

Molecular Weight of ARP-1: 45 kDa.

Positive Controls: ARP-1 (h2): 293T Lysate: sc-115650, ARP-1 (m): 293T Lysate: sc-126444 or Ramos nuclear extract: sc-2153.

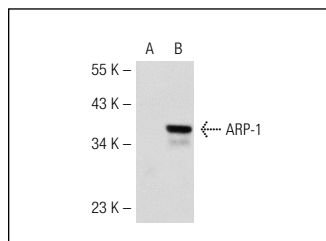
STORAGE

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

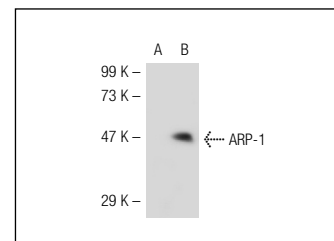
RESEARCH USE

For research use only, not for use in diagnostic procedures

DATA



ARP-1 (N-19): sc-6576. Western blot analysis of ARP-1 expression in non-transfected: sc-117752 (A) and human ARP-1 transfected: sc-115650 (B) 293T whole cell lysates.



ARP-1 (N-19): sc-6576. Western blot analysis of ARP-1 expression in non-transfected: sc-117752 (A) and mouse ARP-1 transfected: sc-126444 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Kang, S., et al. 2003. ARP-1/COUP-TF II determines hepatoma phenotype by acting as both a transcriptional repressor of microsomal triglyceride transfer protein and an inducer of CYP7A1. *J. Biol. Chem.* 278: 30478-30486.
2. Geng, C.D., et al. 2004. Steroid-responsive sequences in the human glucocorticoid receptor gene 1A promoter. *Mol. Endocrinol.* 18: 912-924.
3. Beland, M. 2005. Chicken ovalbumin upstream promoter-transcription factor members repress retinoic acid-induced Cdx1 expression. *J. Biol. Chem.* 280: 13858-13862.
4. Spann, N.J., et al. 2006. Coordinate transcriptional repression of liver fatty acid-binding protein and microsomal triglyceride transfer protein blocks hepatic very low density lipoprotein secretion without hepatosteatosis. *J. Biol. Chem.* 281: 33066-33077.
5. Wauthier, V., et al. 2006. Decreased CYP3A2 expression and activity in senescent male Wistar rats: is there a role for HNF4α? *Exp. Gerontol.* 41: 846-854.

PROTOCOLS

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

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Try **ARP-1 (E-11): sc-271940** or **ARP-1 (B-2): sc-271265**, our highly recommended monoclonal alternatives to ARP-1 (N-19).