

# ARP-1 (D-12): sc-271264

## 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.

## REFERENCES

- Miyajima, N., et al. 1988. Identification of two novel members of erbA superfamily by molecular cloning: the gene products of the two are highly related to each other. *Nucleic Acids Res.* 16: 11057-11074.
- Wang, L.H., et al. 1989. COUP transcription factor is a member of the steroid receptor superfamily. *Nature* 340: 163-166.
- Ladias, J.A.A., et al. 1991. Regulation of the apolipoprotein AI gene by ARP-1, a novel member of the steroid receptor superfamily. *Science* 251: 561-565.
- Umesono, K., et al. 1991. Direct repeats as selective response elements for the thyroid hormone, retinoic acid and vitamin D<sub>3</sub> receptors. *Cell* 65: 1255-1266.
- Cooney, A., et al. 1993. Multiple mechanisms of chicken ovalbumin upstream promoter transcription factor-dependent repression of transactivation by the vitamin D, thyroid hormone, and retinoic acid receptors. *J. Biol. Chem.* 268: 4152-4160.
- Jonk, L.J.C., et al. 1994. Cloning and expression during development of three murine members of the COUP family of nuclear orphan receptors. *Mech. Dev.* 47: 81-97.

## CHROMOSOMAL LOCATION

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

## SOURCE

ARP-1 (D-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 13-44 at the N-terminus of ARP-1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> lambda light chain 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-271264 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-271264 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## APPLICATIONS

ARP-1 (D-12) is recommended for detection of ARP-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 (D-12) 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 (D-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

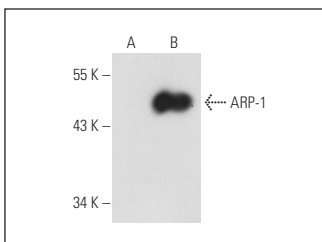
Molecular Weight of ARP-1: 45 kDa.

Positive Controls: Sol8 cell lysate: sc-2249 or ARP-1 (m): 293T Lysate: sc-126444.

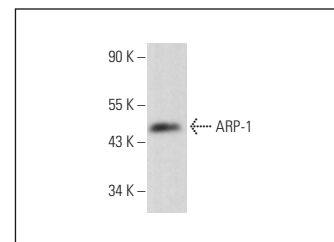
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGλ BP-FITC: sc-516185 or m-IgGλ BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



ARP-1 (D-12): sc-271264. 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.



ARP-1 (D-12): sc-271264. Western blot analysis of ARP-1 expression in Sol8 whole cell lysate.

## 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.