

EAR2 (m): 293T Lysate: sc-119899

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 EAR3) 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

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2. Wang, L.H., et al. 1989. COUP transcription factor is a member of the steroid receptor superfamily. *Nature* 340: 163-166.
3. Ladias, J.A.A., et al. 1991. Regulation of the apolipoprotein AL gene by ARP-1, a novel member of the steroid receptor superfamily. *Science* 251: 56165.
4. Umesono, K., et al. 1991. Direct repeats as selective response elements for the thyroid hormone, retinoic acid and vitamin D₃ receptors. *Cell* 65: 1255-1266.
5. 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.
6. 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.
7. Liu, P.X., et al. 1994. An evolutionary conserved COUP-TF binding element in a neural-specific gene and COUP-TF expression patterns support a major role for COUP-TF in neural development. *Mol. Endocrinol.* 8: 1774-1788.

CHROMOSOMAL LOCATION

Genetic locus: Nr2f6 (mouse) mapping to 8 B3.3.

PRODUCT

EAR2 (m): 293T Lysate represents a lysate of mouse EAR2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

EAR2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive EAR2 antibodies. Recommended use: 10-20 µl per lane.

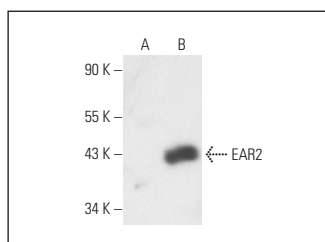
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

COUP-TF/EAR2 (F-11): sc-166941 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse EAR2 expression in EAR2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-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.

DATA



COUP-TF/EAR2 (F-11): sc-166941. Western blot analysis of EAR2 expression in non-transfected: sc-117752 (A) and mouse EAR2 transfected: sc-119899 (B) 293T whole cell lysates.

RESEARCH USE

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