

COUP-TF/EAR2 (h): 293T Lysate: sc-112405

BACKGROUND

EAR2 (v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 2) protein binds a *cis* enhancer element (TGACCT motif) upstream of the renin gene and represses renin gene transcription. EAR2 also contributes to gonadotropin-dependent derepression of LHR promoter activity in granulosa cells. EAR2 mRNA is abundant in the liver, and EAR2 protein localizes to the nucleus of As4.1 cells.

REFERENCES

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2. Barnhart, K.M. and Mellon, P.L. 1994. The sequence of a murine cDNA encoding EAR2, a nuclear orphan receptor. *Gene* 142: 313-314.
3. Islam, T.C. and Toftgard, R. 1994. Nuclear orphan receptor-binding retinoic acid response elements in keratinocytes. *Biochem. Biophys. Res. Commun.* 203: 545-552.
4. Chu, K. and Zingg, H.H. 1997. The nuclear orphan receptors COUP-TFII and EAR2 act as silencers of the human oxytocin gene promoter. *J. Mol. Endocrinol.* 19: 163-172.
5. Chu, K., et al. 1998. Nuclear orphan receptors COUP-TFII and EAR2: presence in oxytocin-producing uterine cells and functional interaction with the oxytocin gene promoter. *Mol. Cell. Endocrinol.* 137: 145-154.
6. Zhang, Y. and Dufau, M.L. 2000. Nuclear orphan receptors regulate transcription of the gene for the human luteinizing hormone receptor. *J. Biol. Chem.* 275: 2763-2770.
7. Zhu, X.G., et al. 2000. The orphan nuclear receptor EAR2 is a negative coregulator for thyroid hormone nuclear receptor function. *Mol. Cell. Biol.* 20: 2604-2618.
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CHROMOSOMAL LOCATION

Genetic locus: NR2F1 (human) mapping to 5q15, NR2F6 (human) mapping to 19p13.11.

PRODUCT

COUP-TF/EAR2 (h): 293T Lysate represents a lysate of human COUP-TF/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.

RESEARCH USE

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

APPLICATIONS

COUP-TF/EAR2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive COUP-TF/EAR2 antibodies. Recommended use: 10-20 µl per lane.

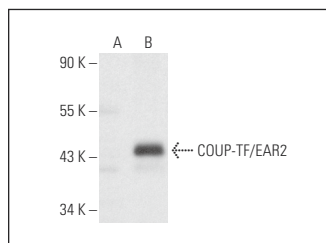
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

COUP-TF/EAR2 (F-11): sc-166941 is recommended as a positive control antibody for Western Blot analysis of enhanced human COUP-TF/EAR2 expression in COUP-TF/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 COUP-TF/EAR2 expression in non-transfected: sc-117752 (A) and human COUP-TF/EAR2 transfected: sc-112405 (B) 293T whole cell lysates.

PROTOCOLS

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