

COUP-TF/EAR2 (F-11): sc-166941

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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- 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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SOURCE

COUP-TF/EAR2 (F-11) is a mouse monoclonal antibody raised against amino acids 121-350 mapping within an internal region of EAR2 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa 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-166941 X, 200 µg/0.1 ml.

COUP-TF/EAR2 (F-11) is available conjugated to agarose (sc-166941 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166941 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166941 PE), fluorescein (sc-166941 FITC), Alexa Fluor® 488 (sc-166941 AF488), Alexa Fluor® 546 (sc-166941 AF546), Alexa Fluor® 594 (sc-166941 AF594) or Alexa Fluor® 647 (sc-166941 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166941 AF680) or Alexa Fluor® 790 (sc-166941 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

COUP-TF/EAR2 (F-11) is recommended for detection of COUP-TFI, ARP-1 and EAR2 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).

COUP-TF/EAR2 (F-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

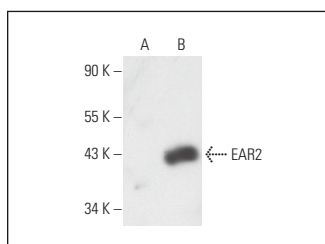
Molecular Weight of COUP-TF/EAR2: 45 kDa.

Positive Controls: Ramos cell lysate: sc-2216, Hep G2 cell lysate: sc-2227 or EAR2 (m): 293T Lysate: sc-119899.

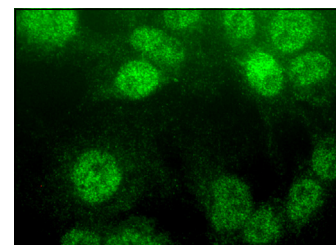
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

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.



COUP-TF/EAR2 (F-11): sc-166941. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear localization.

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.

PROTOCOLS

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

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