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Rev-erb α (m): 293T Lysate: sc-125901

BACKGROUND

Orphan nuclear receptors NR1D1 and NR1D2 are more commonly designated Rev-erb α and Rev-erb β , respectively. Rev-erb α acts as a receptor for triiodothyronine and is composed of three domains, a modulating N-terminal domain, a C-terminal steroid binding domain and a DNA-binding domain. Rev-erb β binds to the sequences 5'-AATGTAGGTCA-3' and 5'-ATAACTAGGTCA-3' and acts as a competitive repressor of ROR α function. It interacts with NCoA-5 co-activator which leads to an increase in transcription. Both Rev-erb α and Rev-erb β are nuclear proteins belonging to the nuclear hormone receptor family of proteins.

REFERENCES

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- Zhao, Q., et al. 1998. Structural elements of an orphan nuclear receptor-DNA complex. *Mol. Cell* 1: 849-861.
- Sauve, F., et al. 2001. CIA, a novel estrogen receptor coactivator with a bifunctional nuclear receptor interacting determinant. *Mol. Cell. Biol.* 21: 343-353.
- Migita, H., et al. 2004. Rev-erb α upregulates NF κ B-responsive genes in vascular smooth muscle cells. *FEBS Lett.* 561: 69-74.
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CHROMOSOMAL LOCATION

Genetic locus: Nr1d1 (mouse) mapping to 11 D.

PRODUCT

Rev-erb α (m): 293T Lysate represents a lysate of mouse Rev-erb α transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

Rev-erb α (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Rev-erb α antibodies. Recommended use: 10-20 μ l per lane.

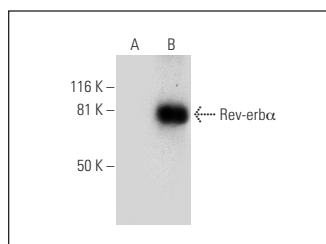
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Rev-erb α (E-12): sc-393215 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Rev-erb α expression in Rev-erb α 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



Rev-erb α (E-12): sc-393215. Western blot analysis of Rev-erb α expression in non-transfected: sc-117752 (A) and mouse Rev-erb α transfected: sc-125901 (B) 293T whole cell lysates.

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.