



TR2 (h): 293T Lysate: sc-115542

BACKGROUND

The human TR2 orphan receptor is a member of the steroid/thyroid hormone receptor superfamily that controls a variety of processes, including growth, differentiation and development. TR2 is known to bind to regulatory elements of the erythropoietin gene, the muscle-specific aldolase A gene and the CNTF-15 gene. In addition to TR2, a related orphan receptor, designated TR4, has been identified. TR4 forms heterodimers with TR2, which are thought to be involved in neurogenesis and germ cell development. TR2 is known to be downregulated by both p53 and ionizing radiation, and it may play a role in linking p53 to members of the steroid receptor family.

REFERENCES

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3. Lin, D.L. and Chang C. 1996. p53 is a mediator for radiation-repressed human TR2 orphan receptor expression in MCF7 cells, a new pathway from tumor suppressor to member of the steroid receptor superfamily. *J. Biol. Chem.* 271: 14649-14652.
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5. Young, W.J., Lee, Y.F., Smith, S.M. and Chang, C. 1998. A bidirectional regulation between the TR2/TR4 orphan receptors (TR2/TR4) and the ciliary neurotrophic factor (CNTF) signaling pathway. *J. Biol. Chem.* 273: 20877-20885.
6. Lee, C.H., Chinpaisal, C. and Wei, L.N. 1998. A novel nuclear receptor heterodimerization pathway mediated by orphan receptors TR2 and TR4. *J. Biol. Chem.* 273: 25209-25215.

CHROMOSOMAL LOCATION

Genetic locus: NR2C1 (human) mapping to 12q22.

PRODUCT

TR2 (h): 293T Lysate represents a lysate of human TR2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TR2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TR2 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.

RESEARCH USE

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

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.