

TRAP150 (N-18): sc-5378



The Power to Question

BACKGROUND

In mammalian cells, transcription is regulated in part by high molecular weight coactivating complexes that mediate signaling between transcriptional activators and initiation factors. These complexes include the thyroid hormone receptor-associated protein (TRAP) complex, which interacts with thyroid receptors (TR), vitamin D receptors and other steroid receptors to facilitate hormone induced transcriptional activation. The TRAP complex consists of numerous proteins ranging in size including TRAP95, TRAP100, TRAP150, TRAP220 and TRAP230, and they are characterized by the presence of a nuclear receptor recognition motif, which mediates the ligand-dependent binding of TRAP proteins to the nuclear receptors. TRAP220 and TRAP100 are widely expressed and most abundantly detected in skeletal muscle, heart and placenta. TRAP95, TRAP150 and TRAP230 facilitate TR-induced transcription by associating with an additional transcriptional coactivating complex SMCC (SRB and MED protein cofactor complex), which consists of various subunits that share homology with several components of the yeast transcriptional mediator complexes.

CHROMOSOMAL LOCATION

Genetic locus: THRAP3 (human) mapping to 1p34.3; Thrap3 (mouse) mapping to 4 D2.2.

SOURCE

TRAP150 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TRAP150 of human origin.

PRODUCT

Each vial contains 200 µg IgG 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-5378 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-5378 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRAP150 (N-18) is recommended for detection of TRAP150 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

TRAP150 (N-18) is also recommended for detection of TRAP150 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TRAP150 siRNA (h): sc-38591, TRAP150 siRNA (m): sc-38592, TRAP150 shRNA Plasmid (h): sc-38591-SH, TRAP150 shRNA Plasmid (m): sc-38592-SH, TRAP150 shRNA (h) Lentiviral Particles: sc-38591-V and TRAP150 shRNA (m) Lentiviral Particles: sc-38592-V.

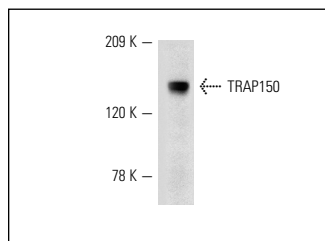
TRAP150 (N-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TRAP150: 150 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



TRAP150 (N-18): sc-5378. Western blot analysis of TRAP150 expression in HeLa nuclear extract.

SELECT PRODUCT CITATIONS

1. Wang, G., et al. 2002. *In vivo* association of adenovirus large E1A protein with the human mediator complex in adenovirus-infected and -transformed cells. *J. Virol.* 76: 9186-9193.
2. Metivier, R., et al. 2003. Estrogen receptor- α directs ordered, cyclical, and combinatorial recruitment of cofactors on a natural target promoter. *Cell* 115: 751-763.
3. Saavalainen, K., et al. 2005. The human hyaluronan synthase 2 gene is a primary retinoic acid and epidermal growth factor responding gene. *J. Biol. Chem.* 280: 14636-14644.
4. Kim, Y.K., et al. 2006. Recruitment of TFIID to the HIV LTR is a rate-limiting step in the emergence of HIV from latency. *EMBO J.* 25: 3596-3604.
5. Turunen, M.M., et al. 2007. Selective use of multiple vitamin D response elements underlies the 1 α ,25-dihydroxyvitamin D₃-mediated negative regulation of the human CYP27B1 gene. *Nucleic Acids Res.* 35: 2734-2747.
6. Uhlmann, T., et al. 2007. The VP16 activation domain establishes an active mediator lacking Cdk8 *in vivo*. *J. Biol. Chem.* 282: 2163-2173.

RESEARCH USE

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

PROTOCOLS

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

MONOS
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Try **TRAP150 (F-10): sc-133250** or **TRAP150 (A-11): sc-133249**, our highly recommended monoclonal alternatives to TRAP150 (N-18).