

TRAP230 (S-19): sc-5372



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: MED12 (human) mapping to Xq13.1; Med12 (mouse) mapping to X D.

SOURCE

TRAP230 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRAP230 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.

Blocking peptide available for competition studies, sc-5372 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-5372 X, 200 µg/0.1 ml.

APPLICATIONS

TRAP230 (S-19) is recommended for detection of TRAP230 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRAP230 siRNA (h): sc-38595, TRAP230 siRNA (m): sc-38596, TRAP230 shRNA Plasmid (h): sc-38595-SH, TRAP230 shRNA Plasmid (m): sc-38596-SH, TRAP230 shRNA (h) Lentiviral Particles: sc-38595-V and TRAP230 shRNA (m) Lentiviral Particles: sc-38596-V.

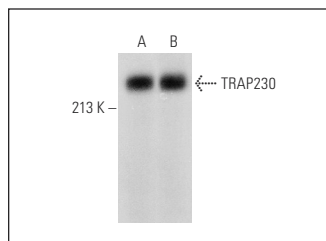
TRAP230 (S-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Positive Controls: HeLa whole cell lysate: sc-2200 or HEK293 whole cell lysate: sc-45136.

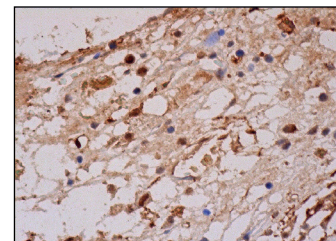
STORAGE

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

DATA



TRAP230 (S-19): sc-5372. Western blot analysis of TRAP230 expression in HeLa (A) and HEK293 (B) whole cell lysates.



TRAP230 (S-19): sc-5372. Immunoperoxidase staining of formalin fixed, paraffin-embedded human bone marrow tissue showing nuclear and cytoplasmic staining of subset of hematopoietic cells.

SELECT PRODUCT CITATIONS

- Wang, Q., et al. 2002. A coregulatory role for the TRAP-mediator complex in androgen receptor-mediated gene expression. *J. Biol. Chem.* 277: 42852-42858.
- Sato, S., et al. 2004. A set of consensus mammalian mediator subunits identified by multidimensional protein identification technology. *Mol. Cell* 14: 685-691.
- Foulds, C.E., et al. 2004. Ras/mitogen-activated protein kinase signaling activates Ets-1 and Ets-2 by CBP/p300 recruitment. *Mol. Cell. Biol.* 24: 10954-10964.
- Kim, S., et al. 2006. Mediator is a transducer of Wnt/ β -catenin signaling. *J. Biol. Chem.* 281: 14066-14075.
- Zhou, H., et al. 2006. Mediator modulates GLI-3-dependent Sonic hedgehog signaling. *Mol. Cell. Biol.* 26: 8667-8682.
- Schwinn, M.K., et al. 2007. Differential recruitment of coactivators to the vitamin D receptor transcriptional complex by $1\alpha,25$ -dihydroxyvitamin D₃ analogs. *Arch. Biochem. Biophys.* 465: 443-451.
- Ding, N., et al. 2008. Mediator links epigenetic silencing of neuronal gene expression with x-linked mental retardation. *Mol. Cell* 31: 347-359.

RESEARCH USE

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

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Try **TRAP230 (E-2): sc-515695**, our highly recommended monoclonal alternative to TRAP230 (S-19).