

TRAP150 (F-10): sc-133250

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, that 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.

REFERENCES

1. Yuan, C.X., et al. 1998. The TRAP220 component of a thyroid hormone receptor-associated protein (TRAP) coactivator complex interacts directly with nuclear receptors in a ligand-dependent fashion. *Proc. Natl. Acad. Sci. USA* 95: 7939-7944.
2. Jiang, Y.W., et al. 1998. Mammalian mediator of transcriptional regulation and its possible role as an end-point of signal transduction pathways. *Proc. Natl. Acad. Sci. USA* 95: 8538-8543.
3. Kumar, R. and Thompson, E.B. 1999. The structure of the nuclear hormone receptors. *Steroids* 64: 310-319.

CHROMOSOMAL LOCATION

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

SOURCE

TRAP150 (F-10) is a mouse monoclonal antibody raised against amino acids 191-490 mapping within an internal region of TRAP150 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-133250 X, 200 µg/0.1 ml.

TRAP150 (F-10) is available conjugated to agarose (sc-133250 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-133250 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-133250 PE), fluorescein (sc-133250 FITC), Alexa Fluor® 488 (sc-133250 AF488), Alexa Fluor® 546 (sc-133250 AF546), Alexa Fluor® 594 (sc-133250 AF594) or Alexa Fluor® 647 (sc-133250 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-133250 AF680) or Alexa Fluor® 790 (sc-133250 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

TRAP150 (F-10) is recommended for detection of TRAP150 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), 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).

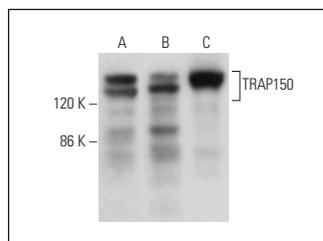
Suitable for use as control antibody for TRAP150 siRNA (h): sc-38591, TRAP150 siRNA (m): sc-38592, TRAP150 shRNA Plasmid (h): sc-38591-SH, TRAP150 shRNA Plasmid (m): sc-38592-SH, TRAP150 shRNA (h) Lentiviral Particles: sc-38591-V and TRAP150 shRNA (m) Lentiviral Particles: sc-38592-V.

TRAP150 (F-10) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

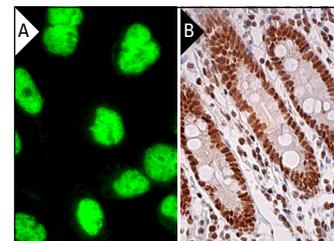
Molecular Weight of TRAP150: 150 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HL-60 whole cell lysate: sc-2209 or HeLa whole cell lysate: sc-2200.

DATA



TRAP150 (F-10): sc-133250. Western blot analysis of TRAP150 expression in K-562 (A), HL-60 (B) and HeLa (C) whole cell lysates.



TRAP150 (F-10): sc-133250. Immunofluorescence staining of formalin-fixed A-431 cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing nuclear staining of glandular cells (B).

SELECT PRODUCT CITATIONS

1. He, H., et al. 2019. Endogenous interaction profiling identifies DDX5 as an oncogenic coactivator of transcription factor Fra-1. *Oncogene* 38: 5725-5738.

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.