

TRAP220 (C-19): sc-5334

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.

CHROMOSOMAL LOCATION

Genetic locus: MED1 (human) mapping to 17q12; Med1 (mouse) mapping to 11 D.

SOURCE

TRAP220 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TRAP220 of human origin.

PRODUCT

Each vial contains 100 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-5334 X, 100 µg/0.1 ml.

Blocking peptide available for competition studies, sc-5334 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

TRAP220 (C-19) is recommended for detection of TRAP220 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). TRAP220 (C-19) is also recommended for detection of TRAP220 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TRAP220 siRNA (h): sc-38593, TRAP220 siRNA (m): sc-38594, TRAP220 shRNA Plasmid (h): sc-38593-SH, TRAP220 shRNA Plasmid (m): sc-38594-SH, TRAP220 shRNA (h) Lentiviral Particles: sc-38593-V and TRAP220 shRNA (m) Lentiviral Particles: sc-38594-V.

TRAP220 (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

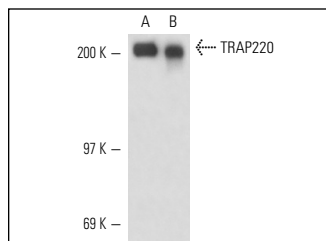
Molecular Weight of TRAP220: 220 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HEK293 whole cell lysate: sc-45136 or Sol8 cell lysate: sc-2249.

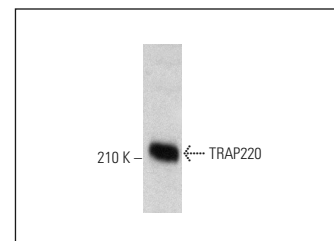
STORAGE

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

DATA



TRAP220 (C-19): sc-5334. Western blot analysis of TRAP220 expression in Jurkat (A) and Sol8 (B) whole cell lysates.



TRAP220 (C-19): sc-5334. Western blot analysis of TRAP220 expression in HEK293 whole cell lysate.

SELECT PRODUCT CITATIONS

- Johnson, K.M., et al. 2002. TFIID and human mediator coactivator complexes assemble cooperatively on promoter DNA. *Genes Dev.* 16: 1852-1863.
- Oda, Y., et al. 2010. The transcriptional coactivator DRIP/mediator complex is involved in vitamin D receptor function and regulates keratinocyte proliferation and differentiation. *J. Invest. Dermatol.* 130: 2377-2388.
- Chia, D.J., et al. 2010. Defining the epigenetic actions of growth hormone: acute chromatin changes accompany GH-activated gene transcription. *Mol. Endocrinol.* 24: 2038-2049.
- Wang, W., et al. 2013. Mediator MED23 regulates basal transcription *in vivo* via an interaction with P-TEFb. *Transcription* 4: 39-51.
- Nakajima, T., et al. 2013. Roles of MED1 in quiescence of hair follicle stem cells and maintenance of normal hair cycling. *J. Invest. Dermatol.* 133: 354-360.
- Watanabe, M., et al. 2015. The E3 ubiquitin ligase TRIM23 regulates adipocyte differentiation via stabilization of the adipogenic activator PPAR γ . *Elife* 4: e05615.
- Takahashi, H., et al. 2015. MED26 regulates the transcription of snRNA genes through the recruitment of little elongation complex. *Nat. Commun.* 6: 5941.

RESEARCH USE

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



Try **TRAP220 (H-7): sc-74475** or **TRAP220 (B-4): sc-514935**, our highly recommended monoclonal alternatives to TRAP220 (C-19).