SANTA CRUZ BIOTECHNOLOGY, INC.

TRAP220 (M-255): sc-8998

SANTA CRUZ BIOTECHNOLOGY

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, 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 (M-255) is a rabbit polyclonal antibody raised against amino acids 502-756 of TRAP220 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-8998 X, 200 µg/0.1 ml.

APPLICATIONS

TRAP220 (M-255) 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 (M-255) 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 (M-255) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

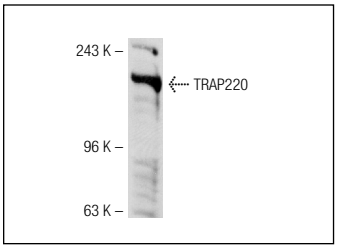
Molecular Weight of TRAP220: 220 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 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 (M-255): sc-8998. Western blot analysis of TRAP220 expression in Sol8 whole cell lysate.

SELECT PRODUCT CITATIONS

1. Soutoglou, E., et al. 2002. Coordination of PIC assembly and chromatin remodeling during differentiation-induced gene activation. Science 295: 1901-1904.
2. Hatzis, P., et al. 2002. Dynamics of enhancer-promoter communication during differentiation-induced gene activation. Mol. Cell 10: 1467-1477.
3. Rietveld, L.E., et al. 2002. *In vivo* repression of an erythroid-specific gene by distinct corepressor complexes. EMBO J. 21: 1389-1397.
4. Grontved, L., et al. 2010. MED14 tethers mediator to the N-terminal domain of peroxisome proliferator-activated receptor γ and is required for full transcriptional activity and adipogenesis. Mol. Cell. Biol. 30: 2155-2169.
5. Paakinaho, V., et al. 2010. Glucocorticoid receptor activates poised FKBP51 locus through long-distance interactions. Mol. Endocrinol. 24: 511-525.
6. van den Berg, D.L., et al. 2010. An Oct4-centered protein interaction network in embryonic stem cells. Cell Stem Cell 6: 369-381.
7. Ross-Innes, C.S., et al. 2010. Cooperative interaction between retinoic acid receptor-α and estrogen receptor in breast cancer. Genes Dev. 24: 171-182.
8. Lester, J.T., et al. 2011. Herpes simplex virus 1 ICP4 forms complexes with TFIID and mediator in virus-infected cells. J. Virol. 85: 5733-5744.
9. Aoyagi, S., et al. 2011. Differential glucocorticoid receptor-mediated transcription mechanisms. J. Biol. Chem. 286: 4610-4619.

RESEARCH USE

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