SANTA CRUZ BIOTECHNOLOGY, INC.

WSTF (H-20): sc-10637

BACKGROUND

WSTF (Williams syndrome transcription factor), also known as WBSCR9, is encoded by the BAZ1B gene, which, through deletion, is considered a contributory factor for the human developmental disorder Williams syndrome. WSTF is ubiqitiously expressed in adult and fetal tissues and is involved in chromatin remodeling and modulation of transcription. A closely related gene, BAZ1A, encodes WCRF, also a chromatin remodeling protein important for development. WSTF incorporates several features that operate in chromatin remodeling and modulation of transcription, including a PHD finger, which is a zinc-finger-like motif rich in cysteine; a bromodomain, which is thought to mediate interactions with histones; and several nuclear binding motifs.

REFERENCES

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3. Peoples, R.J., Cisco, M.J., Kaplan, P. and Francke, U. 1998. Identification of the WBSCR9 gene, encoding a novel transcriptional regulator, in the Williams-Beuren syndrome deletion at 7q11.23. Cytogenet. Cell Genet. 82: 238-246.
4. Ornaghi, P., Ballario, P., Lena, A.M., Gonzalez, A. and Filetici, P. 1999. The bromodomain of Gen5p interacts *in vitro* with specific residues in the N-terminus of histone H4. J. Mol. Biol. 287: 1-7.
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6. Bochar, D., Savard, J., Wang, W., Lafleur, D., Moore, P., Cote, J. and Shiekhattar, R. 2000. A family of chromatin remodeling factors related to Williams syndrome transcription factor. Prod. Natl. Acad. Sci. USA 97: 1038-1043.

CHROMOSOMAL LOCATION

Genetic locus: BAZ1B (human) mapping to 7q11.23; Baz1b (mouse) mapping to 5 G2.

SOURCE

WSTF (H-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of WSTF 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-10637 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-10637 X, 200 µg/0.1 ml.

APPLICATIONS

WSTF (H-20) is recommended for detection of WSTF of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

WSTF (H-20) is also recommended for detection of WSTF in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for WSTF siRNA (h): sc-38619, WSTF siRNA (m): sc-38620, WSTF shRNA Plasmid (h): sc-38619-SH, WSTF shRNA Plasmid (m): sc-38620-SH, WSTF shRNA (h) Lentiviral Particles: sc-38619-V and WSTF shRNA (m) Lentiviral Particles: sc-38620-V.

WSTF (H-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of WSTF: 170 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.