SANTA CRUZ BIOTECHNOLOGY, INC.

WBSCR28 (G-15): sc-165888

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

WBSCR28 (Williams-Beuren syndrome chromosomal region 28 protein homolog), also known as 1700111I05Rik, is a 265 amino acid multi-pass membrane protein that is expressed primarily in testis. WBSCR28 exists as two alternatively spliced isoforms, and is encoded by a gene mapping to human chromosome 7q11.23 and mouse chromosome 5 G2. The region encoding the WBSCR28 gene is deleted in patients with Williams-Beuren syndrome, a neurodevelopmental and multisystemic disease characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. The exact association between the WBSCR28 gene and Williams-Beuren syndrome has not been characterized.

REFERENCES

1. Osborne, L.R., et al. 1996. Identification of genes from a 500-kb region at 7q11.23 that is commonly deleted in Williams syndrome patients. Genomics 36: 328-336.
2. Liang, H., et al. 1998. Molecular anatomy of chromosome 7q deletions in myeloid neoplasms: evidence for multiple critical loci. Proc. Natl. Acad. Sci. USA 95: 3781-3785.
3. Osborne, L.R., et al. 2006. Williams-Beuren syndrome diagnosis using fluorescence *in situ* hybridization. Methods Mol. Med. 126: 113-128.
4. Gilbert-Dussardier, B. 2006. Williams-Beuren syndrome. Rev. Prat. 56: 2102-2106.
5. Micale, L., et al. 2008. Williams-Beuren syndrome TRIM50 encodes an E3 ubiquitin ligase. Eur. J. Hum. Genet. 16: 1038-1049.

CHROMOSOMAL LOCATION

Genetic locus: Wbscr28 (mouse) mapping to 5 G2.

SOURCE

WBSCR28 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WBSCR28 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.

Blocking peptide available for competition studies, sc-165888 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

WBSCR28 (G-15) is recommended for detection of WBSCR28 of mouse and rat 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); non cross-reactive with other WBSCR family members.

Suitable for use as control antibody for WBSCR28 siRNA (m): sc-155250, WBSCR28 shRNA Plasmid (m): sc-155250-SH and WBSCR28 shRNA (m) Lentiviral Particles: sc-155250-V.

Molecular Weight of WBSCR28 isoforms 1/2: 29/6 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.

RESEARCH USE

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