SANTA CRUZ BIOTECHNOLOGY, INC.

WBSCR11 (GTF5I102): sc-81425

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Williams-Beuren syndrome (WBS) is a developmental disorder caused by the hemizygous microdeletion on chromosome 7q11.23. WBS is an autosomal dominant genetic condition that is characterized by physical, cognitive and behavioral traits. The physical traits associated with WBS include facial dysmorphology, vascular stenoses, growth deficiencies, dental anomalies and neurologic and musculoskeletal abnormalities. Mild retardation, a weakness in visual-spatial skills, anxiety and a short attention span are typical cognitive and behavioral traits of WBS patients. The WBSCR11 gene is located within the WBS deletion and may contribute to the developmental symptoms found in WBS because of a loss of the encoded transcription factor. WBSCR11 is also designated GRF2IRD1, GTF3, Cream1 and MusTRD1 in human and BEN in mouse, due to slight differences in gene structure. WBSCR11 is expressed in all adult tissues as several variants and has discrete spatial and temporal expression during embryogenesis. The amino-terminus of WBSCR11 interacts with transcriptional machinery proteins, while the carboxy-terminus has been shown to bind the retinoblastoma protein to possibly regulate the cell cycle.

REFERENCES

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PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: GTF2IRD1 (human) mapping to 7q11.23.

SOURCE

WBSCR11 (GTF5I102) is a mouse monoclonal antibody raised against a recombinant protein corresponding to an internal region of WBSCR11 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

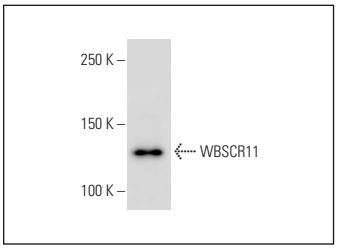
APPLICATIONS

WBSCR11 (GTF5I102) is recommended for detection of WBSCR11 of 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

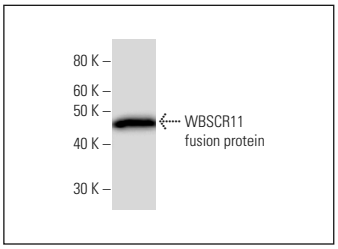
Suitable for use as control antibody for WBSCR11 siRNA (h): sc-38621, WBSCR11 shRNA Plasmid (h): sc-38621-SH and WBSCR11 shRNA (h) Lentiviral Particles: sc-38621-V.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



WBSCR11 (GTF5I102): sc-81425. Western Blot analysis of WBSCR11 expression in HeLa whole cell lysate.



WBSCR11 (GTF5I102): sc-81425. Western Blot analysis of human recombinant WBSCR11 fusion protein.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

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