SANTA CRUZ BIOTECHNOLOGY, INC.

WBSCR16 (E-16): sc-137903

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Williams-Beuren syndrome (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. WBSCR16 (Williams-Beuren syndrome chromosomal region 16 protein), also known as RCC1-like G exchanging factor-like protein, is a 464 amino acid protein that contains 6 RCC1 repeats. Ubiquitously expressed, WBSCR16 is encoded by a gene located in the Williams-Beuren syndrome (WBS) critical region. It is suggested that haploinsufficiency of WBSCR16 may be the cause of certain cardiovascular and musculo-skeletal abnormalities.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WBSCR16 (human) mapping to 7q11.23; Wbscr16 (mouse) mapping to 5 G2.

SOURCE

WBSCR16 (E-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of WBSCR16 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.

Blocking peptide available for competition studies, sc-137903 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WBSCR16 (E-16) is recommended for detection of WBSCR16 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other WBSCR family members.

WBSCR16 (E-16) is also recommended for detection of WBSCR16 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for WBSCR16 siRNA (h): sc-89899, WBSCR16 siRNA (m): sc-155245, WBSCR16 shRNA Plasmid (h): sc-89899-SH, WBSCR16 shRNA Plasmid (m): sc-155245-SH, WBSCR16 shRNA (h) Lentiviral Particles: sc-89899-V and WBSCR16 shRNA (m) Lentiviral Particles: sc-155245-V.

Molecular Weight of WBSCR16: 50 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.