SANTA CRUZ BIOTECHNOLOGY, INC.

SBF2 (N-17): sc-48304

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

SET binding factor 2 (SBF2) is a pseudophosphatase that co-localizes with the myotubularin-related protein-2 (Mtmr2) forming a tetrameric complex in the cytoplasm of various tissues. SBF2 most likely plays a role in cellular communication or the signaling network that is necessary for myelin production, as well as in the development of the meshlike drainage canals surrounding the iris. Mutations the SBF2 gene have been identified as cause of Charcot-Marie-Tooth disease type 4B2 (CMT4B2), an autosomal recessive demyelinating disease. Patients with CMT4B2 due to nonsense or truncating mutations in the SBF2 gene tend to develop early-onset open-angle glaucoma because of the complete absence of SBF2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SBF2 (human) mapping to 11p15.4; Sbf2 (mouse) mapping to 7 F1.

SOURCE

SBF2 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SBF2 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-48304 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RGS8 (K-14) is recommended for detection of RGS8 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).

SBF2 (N-17) is also recommended for detection of SBF2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for SBF2 siRNA (h): sc-61495, SBF2 siRNA (m): sc-61496, SBF2 shRNA Plasmid (h): sc-61495-SH, SBF2 shRNA Plasmid (m): sc-61496-SH, SBF2 shRNA (h) Lentiviral Particles: sc-61495-V and SBF2 shRNA (m) Lentiviral Particles: sc-61496-V.

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.