SANTA CRUZ BIOTECHNOLOGY, INC.

BBS2 (C-16): sc-49381

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Bardet-Biedl syndrome (BBS) is a pleiotropic genetic disorder characterized by obesity, photoreceptor degeneration, polydactyly, hypogenitalism, renal abnormalities and developmental delay. Other associated clinical findings in BBS patients include diabetes, hypertension and congenital heart defects. BBS is a heterogeneous disorder that maps to eight genetic loci and encodes eight proteins, BBS1-BBS8. Five BBS proteins encode basal body or cilia proteins, suggesting that BBS is a ciliary dysfunction disorder. BBS2 is a 721 amino acid protein that is evolutionarily conserved and is expressed in a broad range of tissues including brain, kidney, adrenal gland and thyroid gland. Loss of BBS2 may be involved in defects in social interactions as well as infertility. BBS2 retinopathy involves normal retina development followed by apoptotic death of photoreceptors, the primary ciliated cells of the retina.

CHROMOSOMAL LOCATION

Genetic locus: BBS2 (human) mapping to 16q12.2; Bbs2 (mouse) mapping to 8 C5.

SOURCE

BBS2 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of BBS2 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-49381 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-49381 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

BBS2 (C-16) is recommended for detection of BBS2 (Bardet-Biedl syndrome 2 protein) 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

BBS2 (C-16) is also recommended for detection of BBS2 (Bardet-Biedl syndrome 2 protein) in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BBS2 siRNA (h): sc-60251, BBS2 siRNA (m): sc-60252, BBS2 shRNA Plasmid (h): sc-60251-SH, BBS2 shRNA Plasmid (m): sc-60252-SH, BBS2 shRNA (h) Lentiviral Particles: sc-60251-V and BBS2 shRNA (m) Lentiviral Particles: sc-60252-V.

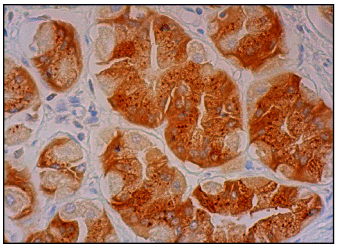
BBS2 (C-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BBS2: 80 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



BBS2 (C-16): sc-49381. Immunoperoxidase staining of formalin fixed, paraffin-embedded human upper stomach tissue showing cytoplasmic staining of glandular cells.

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.

MONOS Satisfaction Guaranteed

Try **BBS2 (A-12): sc-365355**, our highly recommended monoclonal alternative to BBS2 (C-16).