

# BBS5 (Y-15): sc-51469

## 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; BBS genes map to eight genetic loci and encode eight proteins, BBS1-BBS8. Five BBS genes encode basal body or cilia proteins, suggesting that BBS is a ciliary dysfunction disorder. BBS5 localizes to ciliary basal bodies and is a member of the basal body/flagellar proteome. It plays a role in flagellar and basal body assembly and function. A mutation or loss of BBS5 may be correlated with photoreceptor degeneration.

## CHROMOSOMAL LOCATION

Genetic locus: BBS5 (human) mapping to 2q31.1; Bbs5 (mouse) mapping to 2 C2.

## SOURCE

BBS5 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BBS5 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-51469 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-51469 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.

## APPLICATIONS

BBS5 (Y-15) is recommended for detection of BBS5 of mouse, rat and 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)], 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).

BBS5 (Y-15) is also recommended for detection of BBS5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for BBS5 siRNA (h): sc-72164, BBS5 siRNA (m): sc-72165, BBS5 shRNA Plasmid (h): sc-72164-SH, BBS5 shRNA Plasmid (m): sc-72165-SH, BBS5 shRNA (h) Lentiviral Particles: sc-72164-V and BBS5 shRNA (m) Lentiviral Particles: sc-72165-V.

BBS5 (Y-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

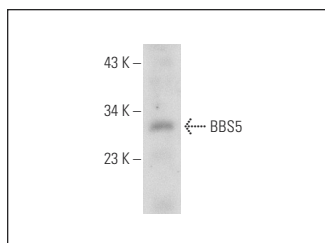
Molecular Weight of BBS5: 39 kDa.

Positive Controls: mouse liver extract: sc-2256.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



BBS5 (Y-15): sc-51469. Western blot analysis of BBS5 expression in mouse liver tissue extract.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **BBS5 (B-11): sc-515331**, our highly recommended monoclonal alternative to BBS5 (Y-15).