

# BBS6 (E-14): sc-49798

## BACKGROUND

Bardet-Biedl syndrome (BBS) is a pleiotropic genetic disorder characterized by obesity, photoreceptor degeneration, polydactyly, hypogenitalism, renal abnormalities, and developmental delay. BBS patients also have an increased risk of developing 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. BBS6 is a Group II chaperonin-like protein that has evolved recently in animals from CCT/TRiC, a subunit of the eukaryotic chaperonin. Most of BBS6 localizes to the pericentriolar material (PCM), a proteinaceous tube surrounding centrioles. During interphase, BBS6 is restricted to the lateral surfaces of the PCM, but during mitosis, it relocalizes throughout the PCM and localizes to the intercellular bridge.

## CHROMOSOMAL LOCATION

Genetic locus: MKKS (human) mapping to 20p12.2; Mkks (mouse) mapping to 2 F3.

## SOURCE

BBS6 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BBS6 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-49798 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-49798 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BBS6 (E-14) is recommended for detection of BBS6 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).

BBS6 (E-14) is also recommended for detection of BBS6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BBS6 siRNA (h): sc-60257, BBS6 siRNA (m): sc-60258, BBS6 shRNA Plasmid (h): sc-60257-SH, BBS6 shRNA Plasmid (m): sc-60258-SH, BBS6 shRNA (h) Lentiviral Particles: sc-60257-V and BBS6 shRNA (m) Lentiviral Particles: sc-60258-V.

BBS6 (E-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

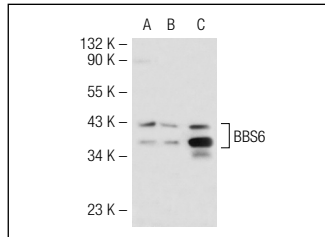
Molecular Weight of BBS6: 62 kDa.

Positive Control: HeLa whole cell lysate: sc-2200, SK-N-SH cell lysate: sc-2410 or BBS6 (h): 293T Lysate: sc-113970.

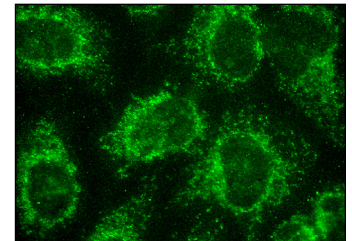
## RECOMMENDED SECONDARY REAGENTS

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



BBS6 (E-14): sc-49798. Western blot analysis of BBS6 expression in non-transfected 293T: sc-117752 (A), human BBS6 transfected 293T: sc-113970 (B) and HeLa (C) whole cell lysates.



BBS6 (E-14): sc-49798. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **BBS6 (F-8): sc-390077**, our highly recommended monoclonal alternative to BBS6 (E-14).