

BBS9 (H-284): sc-292152

BACKGROUND

BBS9 (bardet-biedl syndrome 9), also known as B1, D1, C18 or PTHB1, is an 887 amino acid protein that localizes to both the cytoplasm and the centrosome and exists as 6 alternatively spliced isoforms. Expressed in a wide variety of tissues, including liver, lung, heart, brain and skeletal muscle, BBS9 functions as a component of the multi-protein BBSome complex which is required for ciliogenesis and is regulated by GDP/GTP exchange factors. Defects in the gene encoding BBS9 are associated with the pathogenesis of Bardet-Biedl syndrome type 9 (BBS9), an autosomal recessive disorder that is characterized by severe pigmentary retinopathy, early onset obesity, polydactyly, hypogenitalism, renal malformation and mental retardation. Additionally, chromosomal aberrations involving the BBS9 gene may play a role in the formation of Wilms' tumor 5 (WT5).

REFERENCES

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- Nishimura, D.Y., et al. 2005. Comparative genomics and gene expression analysis identifies BBS9, a new Bardet-Biedl syndrome gene. *Am. J. Hum. Genet.* 77: 1021-1033.
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CHROMOSOMAL LOCATION

Genetic locus: BBS9 (human) mapping to 7p14.3; Bbs9 (mouse) mapping to 9 A3.

SOURCE

BBS9 (H-284) is a rabbit polyclonal antibody raised against amino acids 47-330 mapping near the N-terminus of BBS9 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.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

BBS9 (H-284) is recommended for detection of BBS9 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); non cross-reactive with other BBS family members.

BBS9 (H-284) is also recommended for detection of BBS9 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for BBS9 siRNA (h): sc-72622, BBS9 siRNA (m): sc-72623, BBS9 shRNA Plasmid (h): sc-72622-SH, BBS9 shRNA Plasmid (m): sc-72623-SH, BBS9 shRNA (h) Lentiviral Particles: sc-72622-V and BBS9 shRNA (m) Lentiviral Particles: sc-72623-V.

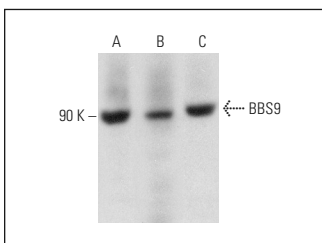
Molecular Weight of BBS9: 99 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, NTERA-2 cl.D1 whole cell lysate: sc-364181 or DU 145 cell lysate: sc-2268.

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

DATA



BBS9 (H-284): sc-292152. Western blot analysis of BBS9 expression in Jurkat (A), NTERA-2 cl.D1 (B) and DU 145 (C) whole cell lysates.

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.