

Product datasheet

Anti-BBS1 antibody ab222890

4 Images

Overview

<b>Product name</b>	Anti-BBS1 antibody
<b>Description</b>	Rabbit polyclonal to BBS1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human BBS1 aa 217-417. Database link: <a href="#">Q8NFJ9</a>
<b>Positive control</b>	WB: Mouse lung tissue lysate. IHC: Human kidney and liver tissues. ICC/IF: HepG2 cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purity >95%.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab222890** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/5000. Detects a band of approximately 66 kDa (predicted molecular weight: 65 kDa).

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.
ICC/IF		1/50 - 1/200.

## Target

### Function

The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane.

### Tissue specificity

Highly expressed in the kidney. Also found in fetal tissue, testis, retina, adipose tissue, heart, skeletal muscle and pancreas.

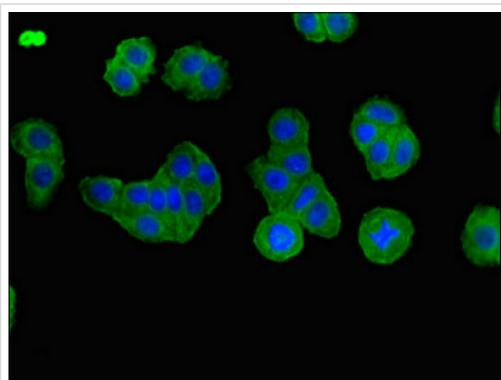
### Involvement in disease

Defects in BBS1 are a cause of Bardet-Biedl syndrome type 1 (BBS1) [MIM:209900]. Bardet-Biedl syndrome (BBS) is a genetically heterogeneous disorder characterized by usually severe pigmentary retinopathy, early onset obesity, polydactyly, hypogenitalism, renal malformation and mental retardation. Secondary features include diabetes mellitus, hypertension and congenital heart disease. A relatively high incidence of BBS is found in the mixed Arab populations of Kuwait and in Bedouin tribes throughout the Middle East, most likely due to the high rate of consanguinity in these populations and a founder effect. Inheritance is autosomal recessive, but three mutated alleles (two at one locus, and a third at a second locus) may be required for disease manifestation in some cases (trialelic inheritance).

### Cellular localization

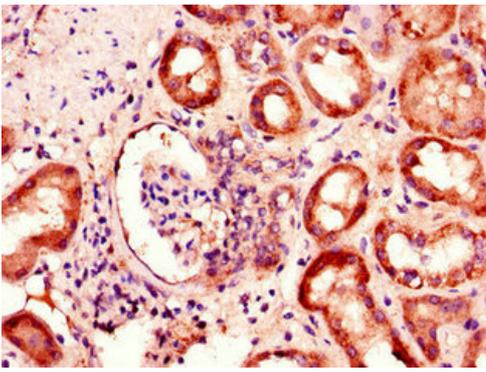
Cell projection > cilium membrane. Cytoplasm. Localizes to nonmembranous centriolar satellites in the cytoplasm.

## Images



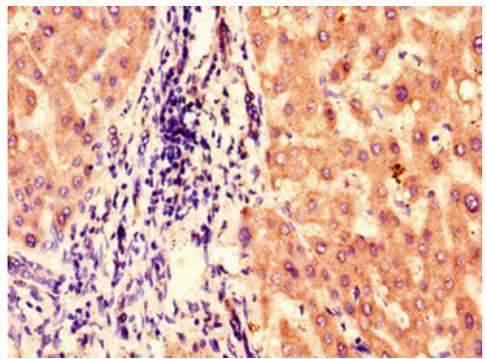
HepG2 (human liver hepatocellular carcinoma cell line) cells stained for BBS1 (green) using ab222890 at 1/100 dilution in ICC/IF, followed by Alexa Fluor 488<sup>®</sup> conjugated Goat Anti-Rabbit IgG (H+L).

Immunocytochemistry/ Immunofluorescence - Anti-BBS1 antibody (ab222890)



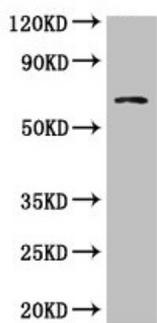
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BBS1 antibody (ab222890)

Paraffin-embedded human kidney tissue stained for BBS1 using ab222890 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BBS1 antibody (ab222890)

Paraffin-embedded human liver tissue stained for BBS1 using ab222890 at 1/100 dilution in immunohistochemical analysis.



Western blot - Anti-BBS1 antibody (ab222890)

Anti-BBS1 antibody (ab222890) at 1/500 dilution + Mouse lung lysate

**Secondary**

Goat polyclonal to rabbit IgG at 1/50000 dilution

**Predicted band size:** 65 kDa

**Observed band size:** 66 kDa

[why is the actual band size different from the predicted?](#)

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