

Product datasheet

Anti-BBS5 antibody ab203621

[2 Images](#)

Overview

Product name	Anti-BBS5 antibody
Description	Rabbit polyclonal to BBS5
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	<p>Synthetic peptide within Human BBS5 aa 220-270 conjugated to Keyhole Limpet Haemocyanin (KLH). The exact sequence is proprietary.</p> <p>Sequence:</p> <p>LVISSQQSGGYVLGFKIDPVEKIQESVKEINSLHKVYS ASPIFGVDYEM E</p> <p>Database link: Q8N3I7</p> <p style="text-align: right;"> Run BLAST with Run BLAST with </p>
Positive control	Rat brain, human kidney tissue.

Properties

Storage instructions	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.
Storage buffer	<p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.01% BSA, 50% Glycerol</p>
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab203621** 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
IHC-P		1/100 - 1/500. When using a fluorescent probe the recommended dilution is 1/50 – 1/200
WB		1/100 - 1/1000. Predicted molecular weight: 39 kDa.

Target

Function

The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. 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 RAB3IP/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. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for BBSome complex ciliary localization but not for the proper complex assembly.

Involvement in disease

Bardet-Biedl syndrome 5

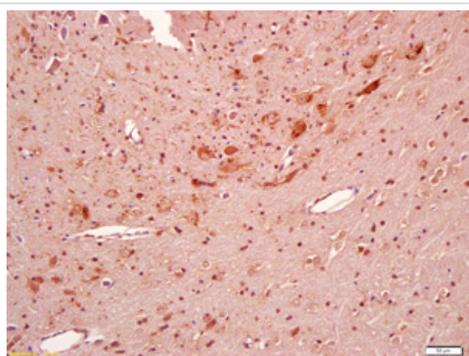
Sequence similarities

Belongs to the BBS5 family.

Cellular localization

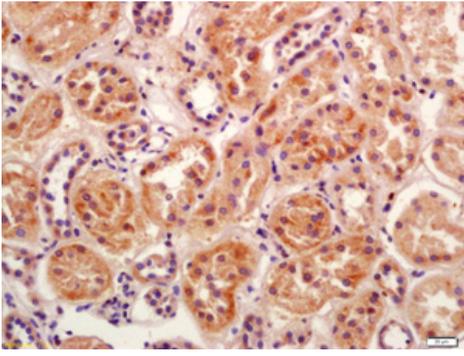
Cell projection, cilium membrane. Cytoplasm. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Localizes to basal bodies.

Images



Immunohistochemical analysis of formalin-fixed and paraffin embedded rat liver labeling BBS5 with ab203621 at 1/200 followed by conjugation to the secondary antibody and DAB staining

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BBS5 antibody (ab203621)



Immunohistochemical analysis of formalin-fixed and paraffin embedded human kidney labeling BBS5 with ab203621 at 1/200 followed by conjugation to the secondary antibody and DAB staining

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BBS5 antibody (ab203621)

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