

# BBS5 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20560a

### **Product Information**

Application WB, E Primary Accession Q8N3I7

**Reactivity** Human, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB47475

## **Additional Information**

Other Names Bardet-Biedl syndrome 5 protein, BBS5

**Target/Specificity** This BBS5 antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 108-141 amino acids from the Central

region of human BBS5.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**BBS5 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

## **Background**

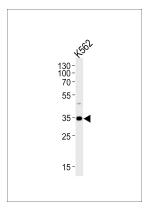
The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange 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.

## References

Li J.B.,et al.Cell 117:541-552(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Badano J.L.,et al.Nature 439:326-330(2006).

## **Images**



Western blot analysis of lysate from K562 cell line, using BBS5 Antibody (Center)(Cat. #AP20560a). AP20560a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.