

BBS4 Antibody (Center)

Purified Mouse Monoclonal Antibody (Mab) Catalog # AW5066

Product Information

Application WB
Primary Accession Q96RK4

Reactivity Human, Mouse, Rat

HostMouseClonalityMonoclonalCalculated MW58 KDaIsotypeIgG1Antigen SourceHUMAN

Additional Information

Antigen Region 1-240

Other Names Bardet-Biedl syndrome 4 protein, BBS4

Dilution WB~~1:1000

Target/Specificity This BBS4 antibody is generated from a mice immunized with a recombinant

protein between 1-240 amino acids from human BBS4.

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

This antibody is purified through a protein G column, followed by dialysis

against PBS.

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.

PrecautionsBBS4 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Background

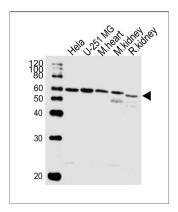
The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange 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 proper BBSome complex assembly and its ciliary localization. Required for microtubule anchoring at the centrosome but not for microtubule nucleation. May be required for the dynein-mediated transport of pericentriolar proteins to the centrosome.

References

Mykytyn K.,et al.Nat. Genet. 28:188-191(2001). Ye X.,et al.DNA Seq. 15:213-218(2004). Ota T.,et al.Nat. Genet. 36:40-45(2004). Zody M.C.,et al.Nature 440:671-675(2006). Badano J.L.,et al.Nature 439:326-330(2006).

Images



Western blot analysis of lysates from Hela,U-251 MG cell line,mouse heart,mouse kidney,rat kidney tissue (from left to right), using BBS4 Antibody (Center)(Cat. #AW5066). AW5066 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

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