

Product datasheet for **TA328137**

BBS4 Mouse Monoclonal Antibody [Clone ID: 1292CT845.130.218]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1292CT845.130.218
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	This BBS4 antibody is generated from a mice immunized with a recombinant protein between 1-240 amino acids from human BBS4.
Formulation:	PBS with 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Bardet-Biedl syndrome 4
Database Link:	NP_149017 Entrez Gene 102774 Mouse Entrez Gene 300754 Rat Entrez Gene 585 Human Q96RK4



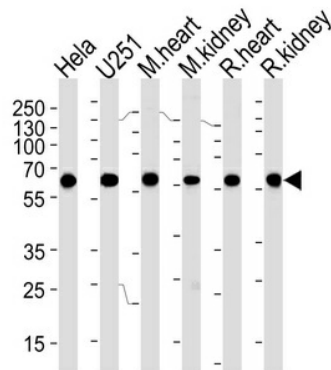
[View online »](#)

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.

Synonyms:

Bardet-Biedl syndrome 4

Product images:


Western blot analysis of lysates from HeLa, U251 cell line, mouse heart and kidney, rat heart and kidney tissue (from left to right), using PHB Antibody (Cat. #TA328137). TA328137 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35ug per lane.