

ARG55131
anti-BBS4 antibodyPackage: 100 µl
Store at: -20°C**Summary**

Product Description	Mouse Monoclonal antibody recognizes BBS4
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	1292CT845.130.218
Isotype	IgG1
Target Name	BBS4
Species	Human
Immunogen	Recombinant protein corresponding to aa. 1-240 of Human BBS4.
Conjugation	Un-conjugated
Alternate Names	Bardet-Biedl syndrome 4 protein

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

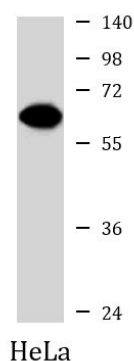
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 102774 Mouse GeneID: 585 Human Swiss-port # Q8C1Z7 Mouse Swiss-port # Q96RK4 Human
Gene Symbol	BBS4
Gene Full Name	Bardet-Biedl syndrome 4
Background	<p>This gene is a member of the Bardet-Biedl syndrome (BBS) gene family. Bardet-Biedl syndrome is an autosomal recessive disorder characterized by severe pigmentary retinopathy, obesity, polydactyly, renal malformation and mental retardation. The proteins encoded by BBS gene family members are structurally diverse. The similar phenotypes exhibited by mutations in BBS gene family members are likely due to the protein's shared roles in cilia formation and function. Many BBS proteins localize to the basal bodies, ciliary axonemes, and pericentriolar regions of cells. BBS proteins may also be involved in intracellular trafficking via microtubule-related transport. The protein encoded by this gene has sequence similarity to O-linked N-acetylglucosamine (O-GlcNAc) transferases in plants and archaeobacteria and in human forms a multi-protein "BBSome" complex with seven other BBS proteins. Alternative splice variants have been described but their predicted protein products have not been experimentally verified.[provided by RefSeq, Oct 2014]</p>
Function	<p>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. [UniProt]</p>
Research Area	Neuroscience antibody
Calculated Mw	58 kDa
Cellular Localization	<p>Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton. Cell projection, cilium membrane. Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite Cell projection, cilium, flagellum. Note=Localizes to the pericentriolar region throughout the cell cycle Centrosomal localization requires dynein</p>

Images



ARG55131 anti-BBS4 antibody WB image

Western blot: 35 µg of HeLa cell lysate stained with ARG55131 anti-BBS4 antibody at 1:1000 dilution.