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Bbs1 (mouse) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3421a

Specification

Bbs1 (mouse) Antibody (internal region) - Product Information

Application	**E**
Primary Accession	Q8NFJ9
Other Accession	NP_001028300.1, 582, 52028 (mouse), 309156 (rat)
Predicted	**Human, Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**65083**

Bbs1 (mouse) Antibody (internal region) - Additional Information

Gene ID 582

Other Names
Bardet-Biedl syndrome 1 protein, BBS2-like protein 2, BBS1, BBS2L2

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Bbs1 (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Bbs1 (mouse) Antibody (internal region) - Protein Information

Name BBS1

Synonyms BBS2L2

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 proper BBSome complex assembly and its ciliary localization (PubMed:17574030, PubMed:22072986). Plays a role in olfactory cilium biogenesis/maintenance and trafficking (By similarity).

Cellular Location
Cell projection, cilium membrane. Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite

Tissue Location
Highly expressed in the kidney. Also found in fetal tissue, testis, retina, adipose tissue, heart, skeletal muscle and pancreas

Bbs1 (mouse) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Bbs1 (mouse) Antibody (internal region) - Images

Bbs1 (mouse) Antibody (internal region) - References

Bardet-biedl syndrome: an atypical phenotype in brothers with a proven BBS1 mutation. Cannon PS, Clayton-Smith J, Beales PL, Lloyd IC, Ophthalmic genetics 2008 Sep 29 (3): 128-32. PMID: 18766993