

BBS7 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3186a**Specification**

BBS7 Antibody (internal region) - Product Information

Application	WB
Primary Accession	Q8IWZ6
Other Accession	NP_789794.1 , NP_060660.2 , 55212 , 71492 (mouse), 361930 (rat)
Reactivity	Human, Rat
Predicted	Mouse, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	80353

BBS7 Antibody (internal region) - Additional Information**Gene ID** 55212**Other Names**

Bardet-Biedl syndrome 7 protein, BBS2-like protein 1, BBS7, BBS2L1

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

BBS7 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

BBS7 Antibody (internal region) - Protein Information**Name** BBS7**Synonyms** BBS2L1**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.

Cellular Location

Cell projection, cilium membrane. Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q8K2G4}

Tissue Location

Isoform 2 is ubiquitously expressed. Isoform 1 is expressed in retina, lung, liver, testis, ovary, prostate, small intestine, liver, brain, heart and pancreas

BBS7 Antibody (internal region) - Protocols

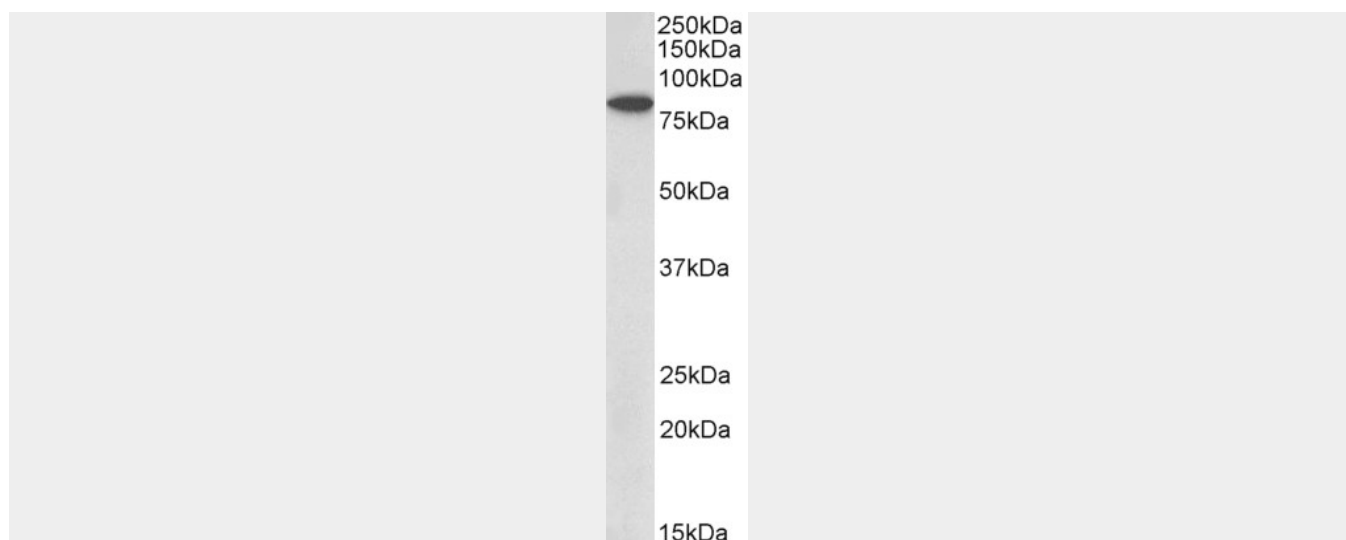
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BBS7 Antibody (internal region) - Images



AF3186a (1 µg/ml) staining of Human Skeletal Muscle lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3186a (0.5 µg/ml) staining of Rat Skeletal Muscle lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

BBS7 Antibody (internal region) - Background

This antibody is expected to recognize both isoforms (NP_789794.1; NP_060660.2).

BBS7 Antibody (internal region) - References

BBS7 and TTC8 (BBS8) mutations play a minor role in the mutational load of Bardet-Biedl syndrome in a multiethnic population. Bin J, Madhavan J, Ferrini W, Mok CA, Billingsley G, HÃ©on E, Human mutation 2009 Jul 30 (7): E737-46. PMID: 19402160