

BBS7 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17417a**Specification**

BBS7 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8IWZ6](#)**BBS7 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 55212**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BBS7 Antibody (N-term) Blocking Peptide - 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 RAB31P/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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BBS7 Antibody (N-term) Blocking Peptide - Images**BBS7 Antibody (N-term) Blocking Peptide - Background**

Mutations in this gene have been observed in patients with Bardet-Biedl syndrome type 7. The encoded protein may play a role in eye, limb, cardiac and reproductive system development. Two transcript variants encoding distinct isoforms have been identified for this gene.

BBS7 Antibody (N-term) Blocking Peptide - References

Bin, J., et al. Hum. Mutat. 30 (7), E737-E746 (2009) : Chung, W.K., et al. Hum. Hered. 67(3):193-205(2009) Oeffner, F., et al. Cell Motil. Cytoskeleton 65(2):143-155(2008) Yang, Z., et al. Mol. Vis. 14, 2304-2308 (2008) : Nachury, M.V., et al. Cell 129(6):1201-1213(2007)