

TTC8 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16824a**Specification**

TTC8 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8TAM2](#)**TTC8 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 123016**Other Names**

Tetratricopeptide repeat protein 8, TPR repeat protein 8, Bardet-Biedl syndrome 8 protein, TTC8, BBS8

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.

TTC8 Antibody (N-term) Blocking Peptide - Protein Information**Name** TTC8**Synonyms** BBS8**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

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, cilium membrane. Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cell projection, cilium {ECO:0000250|UniProtKB:Q8VD72}

Tissue Location

Widely expressed.

TTC8 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TTC8 Antibody (N-term) Blocking Peptide - Images**TTC8 Antibody (N-term) Blocking Peptide - Background**

This gene encodes a protein that has been directly linked to Bardet-Biedl syndrome. The primary features of this syndrome include retinal dystrophy, obesity, polydactyly, renal abnormalities and learning disabilities. Experimentation in non-human eukaryotes suggests that this gene is expressed in ciliated cells and that it is involved in the formation of cilia. Alternate transcriptional splice variants have been characterized.

TTC8 Antibody (N-term) Blocking Peptide - References

Riazuddin, S.A., et al. Am. J. Hum. Genet. 86(5):805-812(2010) Bin, J., et al. Hum. Mutat. 30 (7), E737-E746 (2009) : Chung, W.K., et al. Hum. Hered. 67(3):193-205(2009) Nachury, M.V., et al. Cell 129(6):1201-1213(2007) Ansley, S.J., et al. Nature 425(6958):628-633(2003)