

TBC1D21 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14645a**Specification**

TBC1D21 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8IYX1](#)**TBC1D21 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 161514**Other Names**

TBC1 domain family member 21, TBC1D21

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.

TBC1D21 Antibody (N-term) Blocking Peptide - Protein Information**Name** TBC1D21**Synonyms** MGCRABGAP {ECO:0000303|PubMed:28067790}**Function**

Acts as a GTPase-activating protein for Rab family protein(s) (PubMed:28067790, PubMed:19077034). Essential for the establishment of male fertility, and is required for both the production of normal sperm number and sperm function (By similarity). Plays an important role in the formation of intact mitochondria, outer dense fibers and axoneme within the sperm tail (By similarity). Essential for sperm mitochondrial sheath formation and for the interactions of ARMC12 with VDAC2 and VDAC3 (By similarity). May be involved in acrosome formation and cytoskeletal reorganization during spermiogenesis, possibly by regulating RAB3A activity (PubMed:21128978).

Cellular Location

Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:Q9D9D3}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9D9D3}. Note=Located at the edge of the acrosomal region, neck and annulus during spermiogenesis. Colocalizes with RAB3A at the acrosome-acroplaxome and neck regions of spermatids Colocalizes with ACTB at the neck region

in elongated spermatids {ECO:0000250|UniProtKB:Q9D9D3}

Tissue Location

Expressed in round and elongated spermatids (at protein level). Expressed specifically in adult testis and very weakly in fetal brain.

TBC1D21 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TBC1D21 Antibody (N-term) Blocking Peptide - Images**TBC1D21 Antibody (N-term) Blocking Peptide - Background**

TBC1D21 may act as a GTPase-activating protein for Rab family protein(s).

TBC1D21 Antibody (N-term) Blocking Peptide - References

Ishibashi, K., et al. Genes Cells 14(1):41-52(2009)