

TMM70 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13011b**Specification**

TMM70 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q9BUB7](#)**TMM70 Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 54968

Other Names

Transmembrane protein 70, mitochondrial, TMEM70

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.

TMM70 Antibody (C-term) Blocking peptide - Protein InformationName TMEM70 ([HGNC:26050](#))**Function**

Scaffold protein that participates in the c-ring assembly of mitochondrial ATP synthase (F(1)F(0) ATP synthase or complex V) by facilitating the membrane insertion and oligomer formation of the subunit c/ATP5MC1 through its interaction (PubMed:31652072, PubMed:33753518, PubMed:33359711, PubMed:32275929). Therefore, participates in the early stage of mitochondrial ATP synthase biogenesis and also protects subunit c/ATP5MC1 against intramitochondrial proteolysis (PubMed:33359711, PubMed:18953340, PubMed:20937241, PubMed:31652072). In addition, binds the mitochondrial proton-transporting ATP synthase complexes I and may play a role in the stability of its membrane-bound subassemblies (PubMed:32275929).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein. Note=Mostly located within the inner cristae membrane

Tissue Location

Lower expressed in the heart than in the liver (at protein level).

TMM70 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TMM70 Antibody (C-term) Blocking peptide - Images**TMM70 Antibody (C-term) Blocking peptide - Background**

This gene likely encodes a mitochondrial membrane protein. The encoded protein may play a role in biogenesis of mitochondrial ATP synthase. Mutations in this gene have been associated with neonatal mitochondrial encephalocardiomyopathy due to ATP synthase deficiency. Alternatively spliced transcript variants have been described.

TMM70 Antibody (C-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Karasik, D., et al. J. Bone Miner. Res. 25(7):1555-1563(2010) Honzik, T., et al. Arch. Dis. Child. 95(4):296-301(2010) Davila, S., et al. Genes Immun. 11(3):232-238(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)