

LETM1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17447b**Specification**

LETM1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O95202](#)**LETM1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 3954

Other Names

LETM1 and EF-hand domain-containing protein 1, mitochondrial, Leucine zipper-EF-hand-containing transmembrane protein 1, LETM1

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.

LETM1 Antibody (C-term) Blocking Peptide - Protein InformationName LETM1 ([HGNC:6556](#))**Function**

Plays an important role in maintenance of mitochondrial morphology and in mediating either calcium or potassium/proton antiport (PubMed:18628306, PubMed:19797662, PubMed:24898248, PubMed:24344246, PubMed:29123128, PubMed:32139798, PubMed:36321428, PubMed:36055214). Mediates proton-dependent calcium efflux from mitochondrion (PubMed:19797662, PubMed:24344246, PubMed:29123128). Functions also as an electroneutral mitochondrial proton/potassium exchanger (PubMed:24898248, PubMed:36055214, PubMed:18628306, PubMed:19797662, PubMed:24898248, PubMed:24344246, PubMed:29123128, PubMed:32139798, PubMed:36321428, PubMed:36055214).

href="http://www.uniprot.org/citations/36321428" target="_blank">36321428). Crucial for the maintenance of mitochondrial tubular networks and for the assembly of the supercomplexes of the respiratory chain (PubMed:18628306, PubMed:36055214). Required for the maintenance of the tubular shape and cristae organization (PubMed:18628306, PubMed:32139798).

Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein

LETM1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

LETM1 Antibody (C-term) Blocking Peptide - Images

LETM1 Antibody (C-term) Blocking Peptide - Background

This gene encodes a protein that is localized to the innermitochondrial membrane. The protein functions to maintain themitochondrial tubular shapes and is required for normalmitochondrial morphology and cellular viability. Mutations in thisgene cause Wolf-Hirschhorn syndrome, a complex malformationsyndrome caused by the deletion of parts of the distal short arm ofchromosome 4. Related pseudogenes have been identified onchromosomes 8, 15 and 19.

LETM1 Antibody (C-term) Blocking Peptide - References

Jiang, D., et al. Science 326(5949):144-147(2009)Piao, L., et al. Cell. Signal. 21(5):767-777(2009)Piao, L., et al. Cancer Res. 69(8):3397-3404(2009)Tamai, S., et al. J. Cell. Sci. 121 (PT 15), 2588-2600 (2008) :Dimmer, K.S., et al. Hum. Mol. Genet. 17(2):201-214(2008)