

LETM1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17447b

Specification

LETM1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O95202
Other Accession	NP_036450.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	83354
Antigen Region	577-607

LETM1 Antibody (C-term) - 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

Target/Specificity

This LETM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 577-607 amino acids from the C-terminal region of human LETM1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

LETM1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LETM1 Antibody (C-term) - Protein Information

Name 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:[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

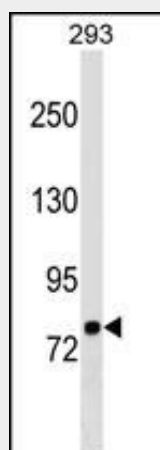
Mitochondrion inner membrane; Single-pass membrane protein

LETM1 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LETM1 Antibody (C-term) - Images



LETM1 Antibody (C-term) (Cat. #AP17447b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the LETM1 antibody detected the LETM1 protein (arrow).

LETM1 Antibody (C-term) - Background

This gene encodes a protein that is localized to the inner mitochondrial membrane. The protein functions to maintain the mitochondrial tubular shapes and is required for normal mitochondrial morphology and cellular viability. Mutations in this gene cause Wolf-Hirschhorn syndrome, a complex malformation syndrome caused by the deletion of parts of the distal short arm of chromosome 4. Related pseudogenes have been identified on

chromosomes 8, 15 and 19.

LETM1 Antibody (C-term) - 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)