

For Research Use Only

LETM1 Polyclonal antibody

Catalog Number: 16024-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number:

16024-1-AP

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8861

GenBank Accession Number:

BC021208

GeneID (NCBI):

3954

UNIPROT ID:

O95202

Full Name:

leucine zipper-EF-hand containing transmembrane protein 1

Calculated MW:

739 aa, 83 kDa

Observed MW:

83 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IF, CoIP

Species Specificity:

human

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, Ramos cells

IHC : human breast cancer tissue, human oesophagus cancer tissue

IF/ICC : HeLa cells,

Background Information

LETM1 is a mitochondrial inner membrane protein. It functions to maintain the mitochondrial tubular shapes and is required for normal mitochondrial morphology and cellular viability. It served as an anchor protein for complex formation between mitochondria and ribosome, and regulated mitochondrial biogenesis. It was also identified in Wolf-Hirschhorn syndrome, and was deleted in nearly all patients with the syndrome. A recent study determined that adenovirus-mediated LETM1 may provide a useful target for designing lung tumor prevention and treatment.

Notable Publications

Author	Pubmed ID	Journal	Application
Giulia Rossetti	34559558	Sci Adv	WB
Gayathri K Natarajan	33041851	Front Physiol	WB
Yoshihiro Miyagawa	33110478	Oncotarget	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

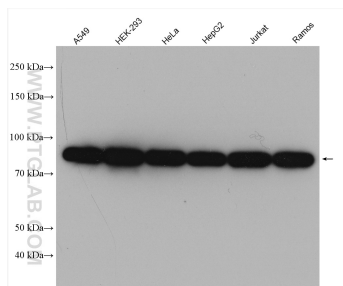
T: 4006900926

E: Proteintech-CN@ptglab.com

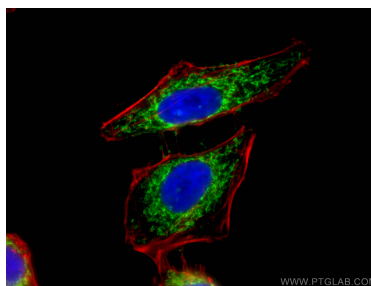
W: ptgcn.com

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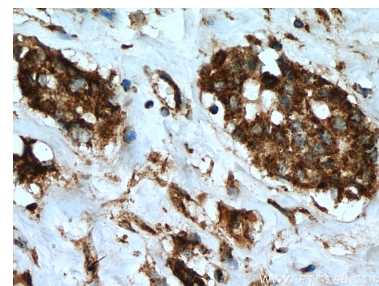
Selected Validation Data



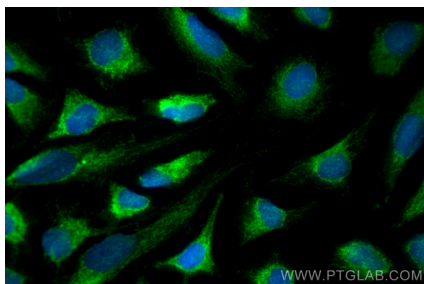
Various lysates were subjected to SDS PAGE followed by western blot with 16024-1-AP (LETM1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



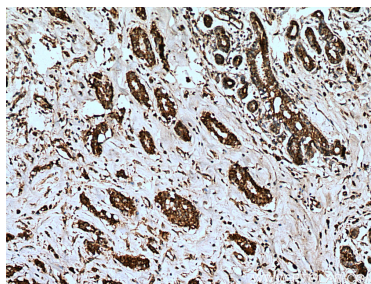
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 16024-1-AP (LETM1 antibody), at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). F-actin is stained using CL555-phalloidin (red) and DNA is stained by DAPI (blue).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16024-1-AP (LETM1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using LETM1 antibody (16024-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16024-1-AP (LETM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).