

For Research Use Only

LETM1 Monoclonal antibody

Catalog Number: 68208-1-Ig **Featured Product**



Basic Information

Catalog Number: 68208-1-Ig	GenBank Accession Number: BC021208	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3954	CloneNo.: 2B9B9
Source: Mouse	UNIPROT ID: O95202	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: leucine zipper-EF-hand containing transmembrane protein 1	
Immunogen Catalog Number: AG8851	Calculated MW: 739 aa, 83 kDa	
	Observed MW: 83 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, 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 : HeLa cells, rat heart tissue, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells

IHC : rat adrenal gland tissue, mouse adrenal gland tissue

IF/ICC : HeLa cells, U-251 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.

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

***** 20ul sizes contain 0.1% BSA**

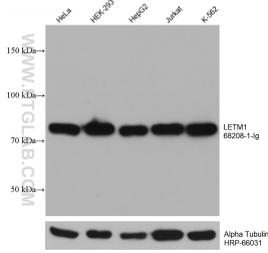
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

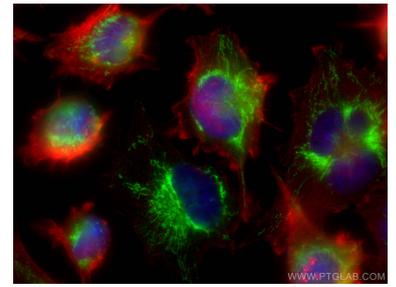
Selected Validation Data



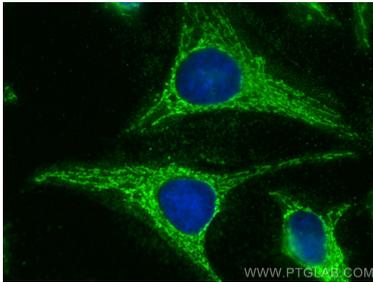
HeLa cells were subjected to SDS PAGE followed by western blot with 68208-1-Ig (LETM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



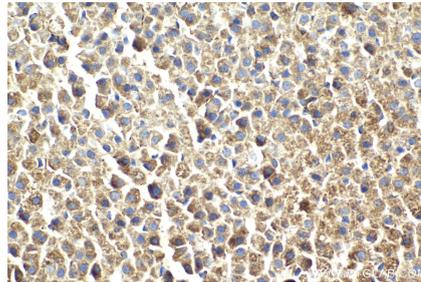
rat heart tissue were subjected to SDS PAGE followed by western blot with 68208-1-Ig (LETM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



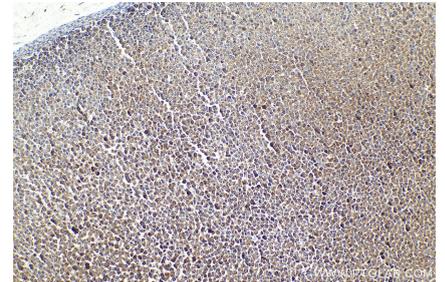
Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using LETM1 antibody (68208-1-Ig, Clone: 2B9B9) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



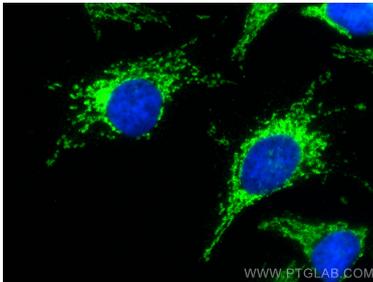
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using LETM1 antibody (68208-1-Ig, Clone: 2B9B9) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



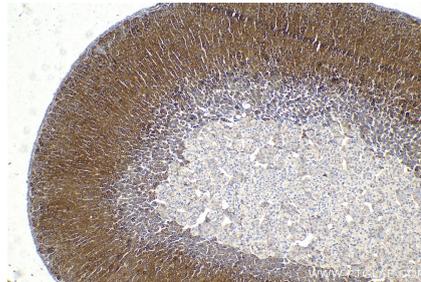
Immunohistochemical analysis of paraffin-embedded rat adrenal gland tissue slide using 68208-1-Ig (LETM1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



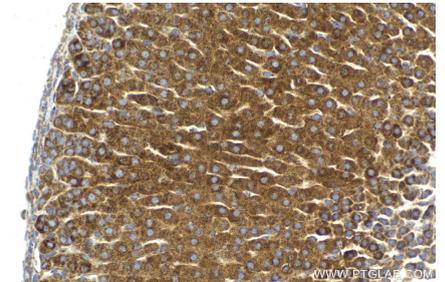
Immunohistochemical analysis of paraffin-embedded rat adrenal gland tissue slide using 68208-1-Ig (LETM1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using LETM1 antibody (68208-1-Ig, Clone: 2B9B9) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse adrenal gland tissue slide using 68208-1-Ig (LETM1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse adrenal gland tissue slide using 68208-1-Ig (LETM1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).