

For Research Use Only

GHITM Polyclonal antibody

Catalog Number: 16296-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 16296-1-AP	GenBank Accession Number: BC010354	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 650 µg/ml by Nanodrop;	GeneID (NCBI): 27069	Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: growth hormone inducible transmembrane protein	
IsoType: IgG	Calculated MW: 345 aa, 37 kDa	
Immunogen Catalog Number: AG9482	Observed MW: 42 kDa, 25-27 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

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: mouse liver tissue, HEK-293 cells, HeLa cells, SH-SY5Y cells

IHC: mouse brain tissue,

IF: HeLa cells,

Background Information

GHITM, also known as MICS1, TMBIM5 or DERP2, is a mitochondrial protein which localizes in the inner membrane. GHITM is involved in mitochondrial morphology in specific cristae structures and the apoptotic release of cytochrome c from the mitochondria (PMID: 18417609). The gene of GHITM maps to chromosome 10q23.1, and encodes a 345-amino-acid protein with a calculated molecular mass of 37 kDa. The apparent molecular weight has been reported to be 42 kDa, the increased size in the protein may be due to post-translational modifications (PMID: 11416014; 16412389). GHITM can be cleaved into smaller forms of 23-27 kDa (PMID: 16412389; 18417609).

Notable Publications

Author	Pubmed ID	Journal	Application
Bruno Seitaj	32977469	Cells	WB
Li Zhang	35715207	Life Sci Alliance	WB
L Orliaguet	36042203	Nat Commun	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

*** 20ul sizes contain 0.1% BSA

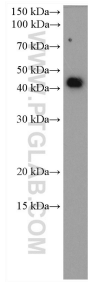
For technical support and original validation data for this product please contact:

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

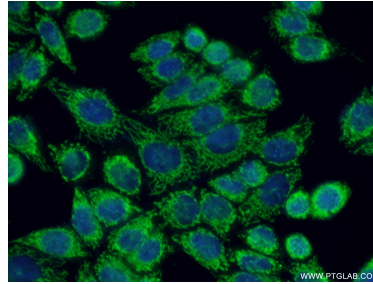
E: proteintech@ptglab.com
W: ptglab.com

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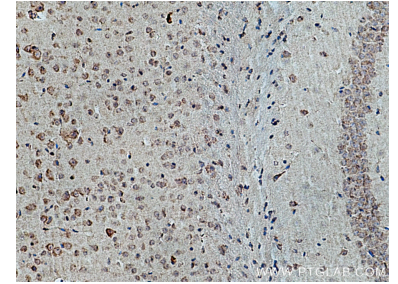
Selected Validation Data



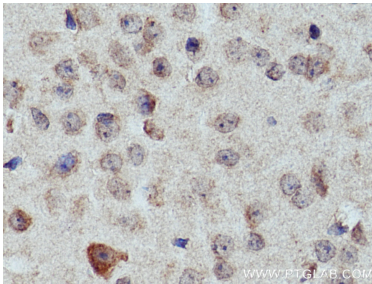
mouse liver mitochondria tissue were subjected to SDS PAGE followed by western blot with 16296-1-AP (GHITM antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 16296-1-AP (GHITM antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16296-1-AP (GHITM antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16296-1-AP (GHITM antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).