

For Research Use Only

GFM1 Polyclonal antibody

Catalog Number: 14274-1-AP

4 Publications



Basic Information

Catalog Number:

14274-1-AP

Size:

150ul, Concentration: 260 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5616

GenBank Accession Number:

BC049210

GeneID (NCBI):

85476

UNIPROT ID:

Q96RP9

Full Name:

G elongation factor, mitochondrial 1

Calculated MW:

86 kDa

Observed MW:

70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, ColP

Species Specificity:

human, mouse, rat

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 kidney tissue, HeLa cells, human heart tissue

IP : HeLa cells,

IHC : human kidney tissue,

IF/ICC : HeLa cells,

Background Information

Different factors catalyze the three stages of protein translation: initiation, elongation, and termination. There are two translational systems in eukaryotes, one in the cytoplasm and the other in the mitochondria. In mitochondria, the elongation phase requires three elongation factors (EF): Tu (TUFM), Ts (TSFM), and G (GFM1)[PMID:19716793]. GFM1 catalyzes translocation during peptide elongation and mediates ribosomal disassembly during ribosome recycling in concert with the ribosomal recycling factor (RRF). [PMID:16487710]

Notable Publications

Author	Pubmed ID	Journal	Application
Jana Key	34943861	Cells	WB
Jana Key	38139332	Int J Mol Sci	WB, ColP
Galmiche Louise L	21986555	Mitochondrion	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

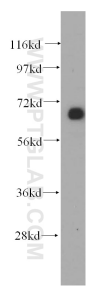
For technical support and original validation data for this product please contact:

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

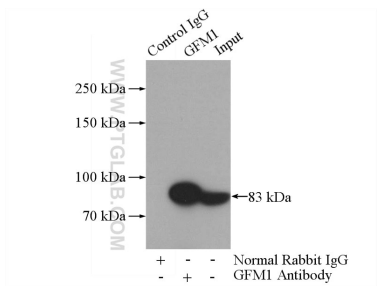
E: proteintech@ptglab.com
W: ptglab.com

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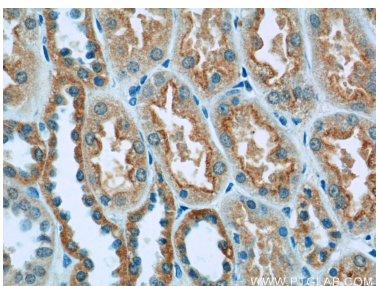
Selected Validation Data



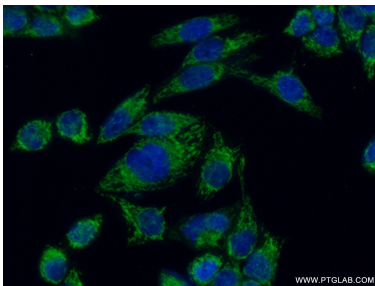
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 14274-1-AP (GFM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-GFM1 (IP:14274-1-AP, 4ug; Detection:14274-1-AP 1:1000) with HeLa cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14274-1-AP (GFM1 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 14274-1-AP (GFM1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).