For Research Use Only

GFM1 Polyclonal antibody

Catalog Number:14274-1-AP 7 Publications

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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:
85 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
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, IHC, CoIP

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 : CTLL-2 cells, HEK-293T cells, HeLa cells, SKOV-3 cells, mouse heart tissue, rat 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
Miguel Molina-Berenguer	41998139	EMBO Mol Med	IHC
Xinyu Wang	41793476	Exp Brain Res	WB

Storage

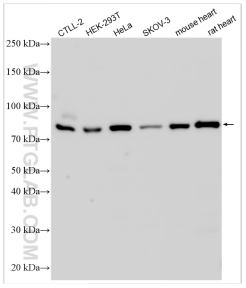
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

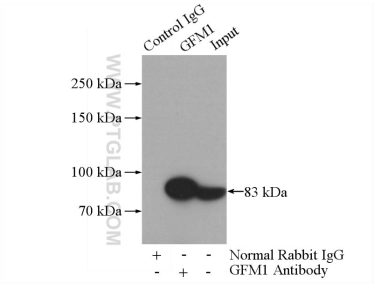
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

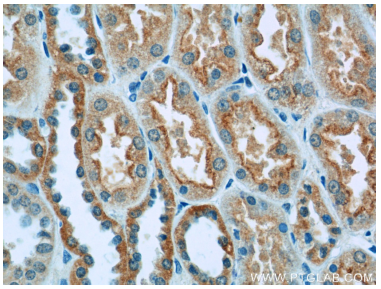
Selected Validation Data



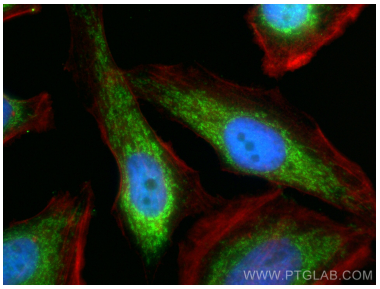
Various lysates were subjected to SDS PAGE followed by western blot with 14274-1-AP (GFM1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



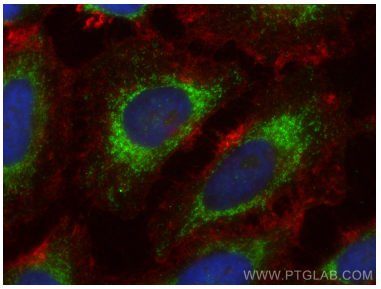
IP result of anti-GFM1 (IP:14274-1-AP, 4ug; Detection:14274-1-AP 1:1000) with HeLa cells lysate 1200ug.



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 GFM1 antibody (14274-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GFM1 antibody (14274-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).