For Research Use Only

GFM1 Polyclonal antibody

Catalog Number:14274-1-AP 4 Publications

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Basic Information

Catalog Number:
14274-1-AP

Size:
260 μg/ml

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, 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 : 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,CoIP
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

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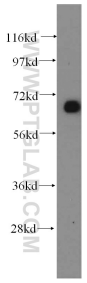
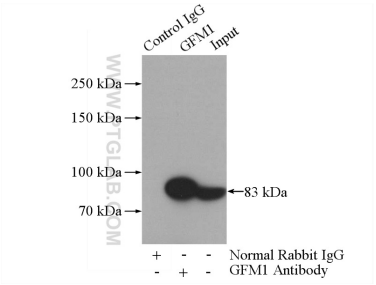
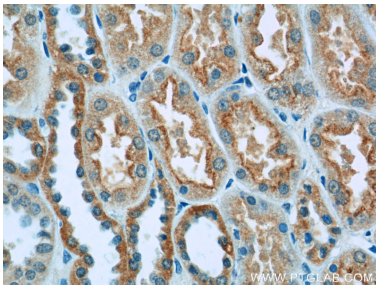
Selected Validation Data



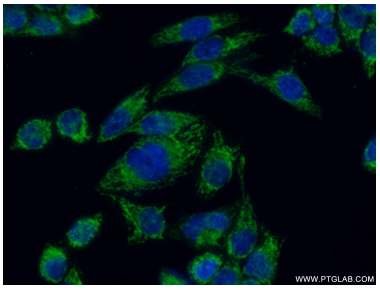
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 14274-1-AP (GFM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Rabbit IgG(H+L).