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Anti-GFM2 Antibody

Catalog # AP60953

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q969S9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86601

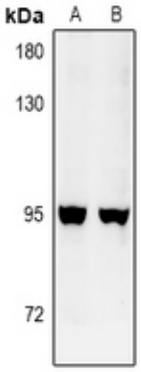
Additional Information

Gene ID	84340
Other Names	EFG2; Ribosome-releasing factor 2 mitochondrial; RRF2mt; Elongation factor G 2 mitochondrial; EF-G2mt; mEF-G 2; Elongation factor G2; hEFG2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GFM2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

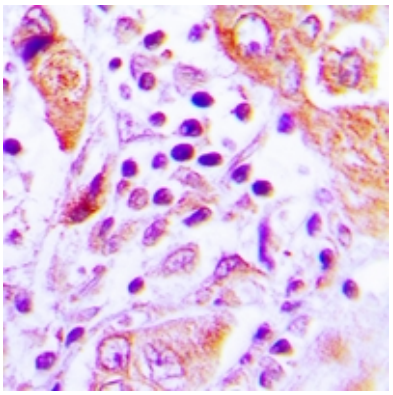
Protein Information

Name	GFM2 {ECO:0000255|HAMAP-Rule:MF_03059}
Function	Mitochondrial GTPase that mediates the disassembly of ribosomes from messenger RNA at the termination of mitochondrial protein biosynthesis (PubMed:19716793, PubMed:33878294). Acts in collaboration with MRRF (PubMed:19716793, PubMed:33878294). Promotes mitochondrial ribosome recycling by dissolution of intersubunit contacts (PubMed:33878294). GTP hydrolysis follows the ribosome disassembly and probably occurs on the ribosome large subunit (PubMed:19716793). Not involved in the GTP-dependent ribosomal translocation step during translation elongation (PubMed:19716793).
Cellular Location	Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03059}.
Tissue Location	Widely expressed..

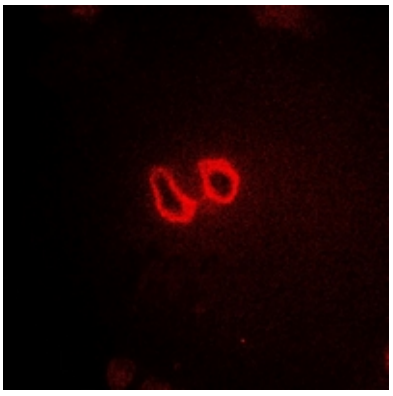
Images



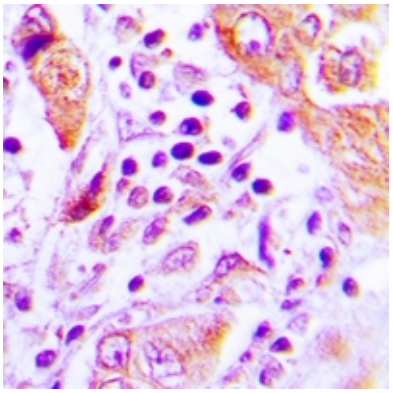
Western blot analysis of GFM2 expression in Hela (A), PC12 (B) whole cell lysates. (Predicted band size: 86 kD; Observed band size: 95 kD)



Immunohistochemical analysis of GFM2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GFM2 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.



Immunohistochemical analysis of GFM2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.