

Anti-GUF1 Antibody

Catalog # AP61333

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8N442
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74328

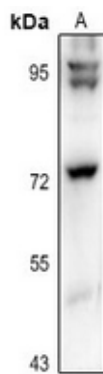
Additional Information

Gene ID	60558
Other Names	Translation factor GUF1 mitochondrial; Elongation factor 4 homolog; EF-4; GTPase GUF1; Ribosomal back-translocase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GUF1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/200) 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

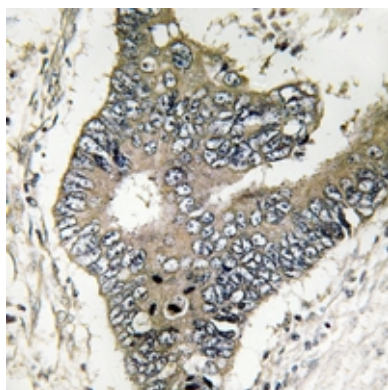
Protein Information

Name	GUF1 {ECO:0000255 HAMAP-Rule:MF_03137}
Function	Promotes mitochondrial protein synthesis. May act as a fidelity factor of the translation reaction, by catalyzing a one-codon backward translocation of tRNAs on improperly translocated ribosomes. Binds to mitochondrial ribosomes in a GTP-dependent manner.
Cellular Location	Mitochondrion inner membrane {ECO:0000255 HAMAP- Rule:MF_03137}; Peripheral membrane protein {ECO:0000255 HAMAP- Rule:MF_03137}; Matrix side {ECO:0000255 HAMAP-Rule:MF_03137}

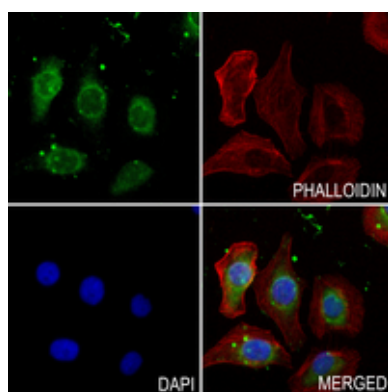
Images



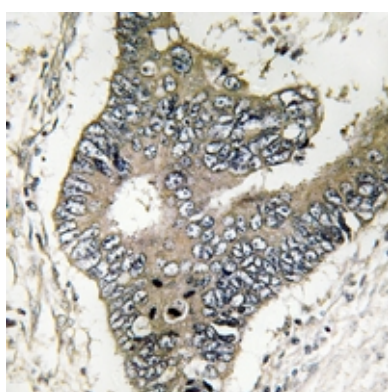
Western blot analysis of GUF1 expression in SHSY5Y (A) whole cell lysates. (Predicted band size: 74 kD; Observed band size: 74 kD)



Immunohistochemical analysis of GUF1 staining in human colon 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 GUF1 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 humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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