

Anti-MRPL12 Antibody

Catalog # AP51703

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P52815
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21348

Additional Information

Gene ID	6182
Other Names	RPML12; 39S ribosomal protein L12 mitochondrial; L12mt; MRP-L12; 5c5-2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MRPL12. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 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

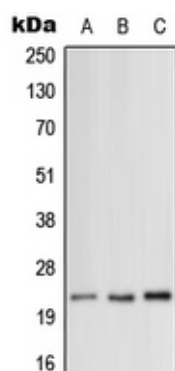
Name	MRPL12
Synonyms	MRPL7, RPML12
Function	As a component of the mitochondrial large ribosomal subunit, plays a role in mitochondrial translation (PubMed: 23603806). When present in mitochondria as a free protein not associated with the ribosome, associates with mitochondrial RNA polymerase POLRMT to activate transcription (PubMed: 22003127). Required for POLRMT stability (PubMed: 26586915).
Cellular Location	Mitochondrion matrix

References

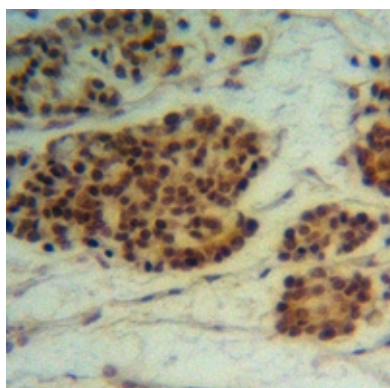
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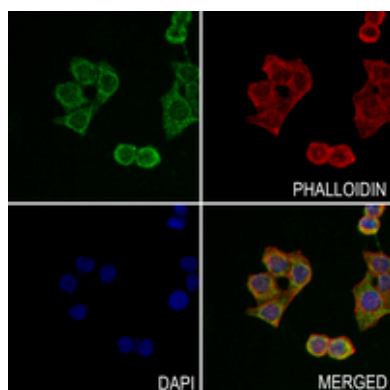
Images



Western blot analysis of MRPL12 expression in HeLa (A), SP2/0 (B), H9C2 (C) whole cell lysates. (Predicted band size: 21 kD; Observed band size: 21 kD)



Immunohistochemical analysis of MRPL12 staining in human stomach 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 MRPL12 staining in MCF7 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).

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