

For Research Use Only

# MRPL48 Polyclonal antibody

Catalog Number: 14677-1-AP

9 Publications



## Basic Information

<b>Catalog Number:</b> 14677-1-AP	<b>GenBank Accession Number:</b> BC009764	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 420 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 51642	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96GC5	
<b>Isotype:</b> IgG	<b>Full Name:</b> mitochondrial ribosomal protein L48	
<b>Immunogen Catalog Number:</b> AG6387	<b>Calculated MW:</b> 24 kDa	
	<b>Observed MW:</b> 20-21 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HeLa cells
<b>Cited Applications:</b> WB, IF	<b>IHC :</b> human pancreas cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HeLa cells,
<b>Cited Species:</b> human, mouse, bovine	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

MRPL48, also named as CGI-118, or HSPC290 is a 212 amino acid protein, which localizes in the Mitochondrion. MRPL48 is a component of the large subunit of the mitochondrial ribosome, including two RNA molecules and, at least, 70 proteins among which 47 proteins for the large subunit. mitochondrial ribosomal protein helps in protein synthesis within the mitochondrion.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shanshan Wu	36077543	Int J Mol Sci	IF
Ying Shu	36314841	EMBO J	WB
Brooke C Wilson	33122634	Nat Commun	WB

## Storage

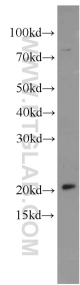
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

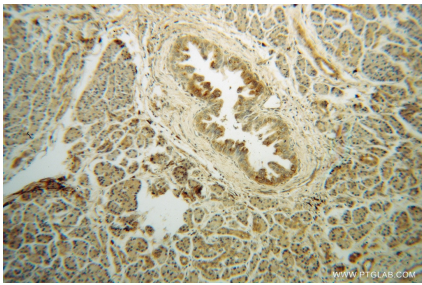
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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Selected Validation Data



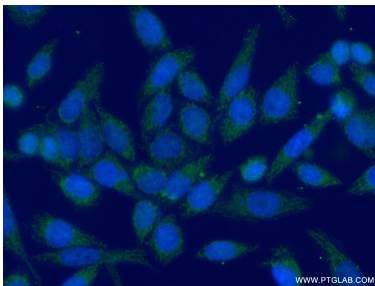
Jurkat cells were subjected to SDS PAGE followed by western blot with 14677-1-AP (MRPL48 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 14677-1-AP (MRPL48 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 14677-1-AP (MRPL48 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 14677-1-AP (MRPL48 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).