

For Research Use Only

MRPL45 Polyclonal antibody

Catalog Number: 15682-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number: 15682-1-AP	GenBank Accession Number: BC006235	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 84311	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: mitochondrial ribosomal protein L45	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 35 kDa	IF 1:20-1:200
Immunogen Catalog Number: AG8184	Observed MW: 35 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, WB

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 : HeLa cells, mouse liver tissue, SKOV-3 cells

IP : HeLa cells,

IHC : human ovary tumor tissue,

IF : HeLa cells,

Background Information

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. MRPL45 is a 39S subunit protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Uwe Richter	30262910	Nat Commun	WB
Benedetta Ruzzenente	30252186	Hum Mutat	WB
Luis Daniel Cruz-Zaragoza	34672953	Cell	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

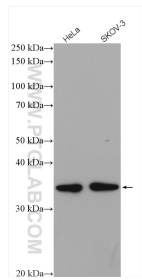
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

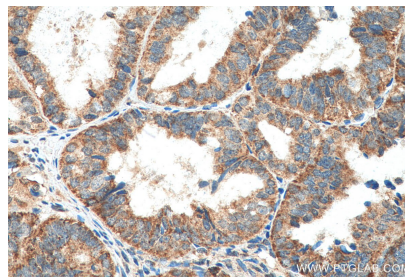
E: proteintech@ptglab.com
W: ptglab.com

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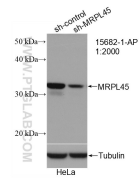
Selected Validation Data



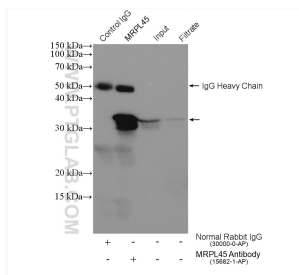
Various lysates were subjected to SDS PAGE followed by western blot with 15682-1-AP (MRPL45 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



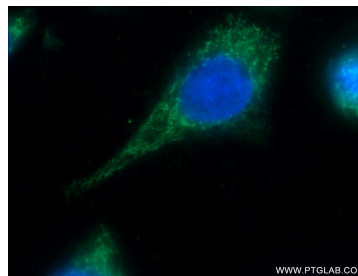
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 15682-1-AP (MRPL45 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of MRPL45 antibody (15682-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MRPL45 transfected HeLa cells.



IP result of anti-MRPL45(IP:15682-1-AP, 4 μ g; Detection:15682-1-AP 1:1000) with HeLa cells lysate 680 μ g.



Immunofluorescent analysis of HeLa cells using 15682-1-AP (MRPL45 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).