For Research Use Only

MRPL12 Polyclonal antibody Catalog Number: 14795-1-AP Featured Product 34 P

Featured Product 34 Publications

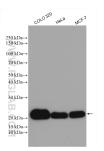


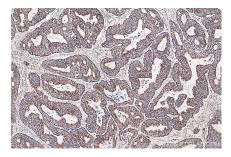
Basic Information	Catalog Number: 14795-1-AP	GenBank Ac BC002344	cession Number:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NC	BI):	Recommended Dilutions:	
	500 ug/ml 6182			WB 1:1000-1:4000	
	Source:	UNIPROT ID	:	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:250-1:1000	
	Rabbit	P52815			
	Isotype:	Full Name:			
	lgG		mitochondrial ribosomal protein L12		
	Immunogen Catalog Number: AG6504	21 kDa	Calculated MW: 21 kDa		
		Observed M 21 kDa	Observed MW: 21 kDa		
Applications	Tested Applications: Positive Cor		ntrols:		
	WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP		WB : COLO 320 cells, HeLa cells, MCF-7 cells		
			IP : HeLa ce	IP : HeLa cells,	
	Species Specificity:		IHC : humai	IHC : human colon cancer tissue,	
	human, mouse, rat IF/ICC : He		pG2 cells,		
	Cited Species: human, mouse, rat, zebrafish				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	Mammalian MRPL12 was the first mitochondrial ribosomal protein to be characterized, and is encoded by a nuclea gene. The protein forms a homodimer, localizes predominantly to mitochondria and binds to the large mitochondrial ribosomal subunit [PMID:862670]. It is required for CycD/Cdk4-induced cell growth. In addition, forming a ribosomal stalk with MRPL7, MRPL12 is required for the recruitment of translation elongation factors Tu and G to the large ribosomal subunit [PMID:12370014]. It also a part of a novel regulatory mechanism that coordinates mitochondrial transcription with translation and/or ribosome biogenesis during human mitochondrial gene expression. The antibody reacts specifically with 21kDa MRPL12 protein.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Hong-Phuc Cudré-Cung	27599447	Mol Genet Metab		
	Luis Daniel Cruz-Zaragoza	34672953	Cell	WB	
		26506045	1 Dial Cham		
	Jessica Nouws	26586915	J Biol Chem	WB	
	Jessica Nouws	26586915	J Blot Chem	WB	

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

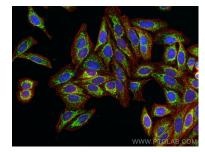
Selected Validation Data

temperature for 1.5 hours.

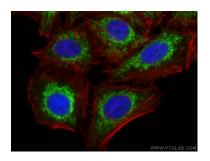




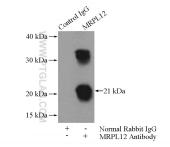
Various lysates were subjected to SDS PAGE Immunohistochemical analysis of paraffinfollowed by western blot with 14795-1-AP (MRPL12 antibody) at dilution of 1:2000 incubated at room embedded human colon cancer tissue slide using 14795-1-AP (MRPL12 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



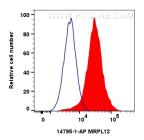
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MRPL12 antibody (14795-1-AP) at dilution of 1:500 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



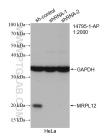
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IP result of anti-MRPL12 (IP:14795-1-AP, 4ug; Detection:14795-1-AP 1:500) with HeLa cells lysate 2000ug.



1x10^6 HeLa cells were intracellularly stained with 0.4 ug MRPL12 Polyclonal antibody (14795-1-AP) and CoraLite@488-Conjugated Goat Anti-Rabbit lgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit lgG control Rabbit PolyAb (3000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



WB result of MRPL12 antibody (14795-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MRPL12 transfected HeLa cells.