For Research Use Only

## POLRMT Polyclonal antibody

Catalog Number:17748-1-AP 1 Publications

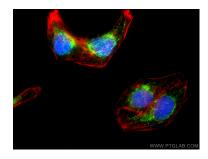


Basic Information	Catalog Number: 17748-1-AP	GenBank Accession N BC098387	lumber:	Purification Method: Antigen affinity purification			
	Size: 150ul, Concentration: 150 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG12012	GeneID (NCBI): 5442 UNIPROT ID: 000411		Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500 IF/ICC 1:50-1:500			
					Full Name: polymerase (RNA) mitochondrial (DNA directed) Calculated MW: 1230 aa, 139 kDa		
		Applications	Tested Applications:	Positive Controls:			
			Cited Applications:		WB: HepG2 o	i2 cells, COLO 320 cells, HeLa cells	
			WB				
			Species Specificity: human				
Cited Species: human 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	Mitochondrial DNA-dependent RNA polymerase (POLRMT) is responsible for the transcription of mitochondrial genome encoding key components of oxidative phosphorylation. Structurally, POLRMT comprises four main domains: the N-terminal extension, a pentatricopeptide repeat (PPR) domain, the N-terminal domain, and the C-terminal domain(PMID: 33602924). POLRMT requires transcription factor B2M (TFB2M) and transcription factor AM (TFAM) for mitochondrial RNA transcription. POLRMT is overexpressed at both the mRNA and protein level in several cancers, including breast, skin, lung, endometrial cancer, and osteosarcomas(PMID: 37371693).		
Notable Publications	Author Put	omed ID Journ	nal	Application			
			hem Biol	WB			
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	er shipment.					
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^\circ$ C s						

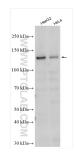
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

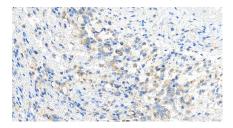
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using POLRMT antibody (17748-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Various lysates were subjected to SDS PAGE followed by western blot with 17748-1-AP (POLRMT antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 17748-1-AP (POLRMT antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).