For Research Use Only

POLRMT Polyclonal antibody

Catalog Number:17748-1-AP 1 Publications

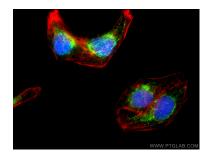


Basic Information	Catalog Number: 17748-1-AP	GenBank Accession Numbe BC 098387	r: Purification Method: Antigen affinity purification
	Size:	GeneID (NCBI):	Recommended Dilutions:
	150 ug/ml	5442	WB 1:200-1:1000
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG12012	UNIPROT ID: O00411	IHC 1:50-1:500 IF/ICC 1:50-1:500
		Full Name: polymerase (RNA) mitochondrial (DNA directed)	
		Calculated MW: 1230 aa, 139 kDa	
		Observed MW: 130-139 kDa	
Applications	Tested Applications: Positive Controls:		
	WB, IHC, IF/ICC, ELISA	WB	HepG2 cells, COLO 320 cells, HeLa cells
	Cited Applications: WB	IHC	: human ovary cancer tissue,
	Species Specificity: IF/ICC : U2OS cells, human		CC : U2OS cells,
	Cited Species: human		
	Note-IHC: suggested antige TE buffer pH 9.0; (*) Altern retrieval may be performed buffer pH 6.0	atively, antigen	
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 severa cancers, including breast, skin, lung, endometrial cancer, and osteosarcomas(PMID: 37371693).		
Notable Publications	Author	Pubmed ID Journal	Application
	Yijie Hao	39609546 Nat Chem E	Biol WB
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	J 50% glycerol pH 7.3.	

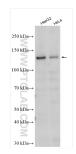
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

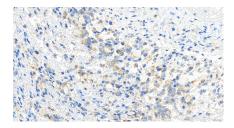
Selected Validation Data



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).