

For Research Use Only

POLRMT Polyclonal antibody

Catalog Number: 17748-1-AP



Basic Information

Catalog Number: 17748-1-AP	GenBank Accession Number: BC098387	Purification Method: Antigen affinity purification
Size: 150ul	GeneID (NCBI): 5442	Recommended Dilutions: WB 1:200-1:1000 IF 1:50-1:500
Source: Rabbit	Full Name: polymerase (RNA) mitochondrial (DNA directed)	
Isotype: IgG	Calculated MW: 1230 aa, 139 kDa	
Immunogen Catalog Number: AG12012	Observed MW: 130-139 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : HepG2 cells, COLO 320 cells, HeLa cells IF : U2OS cells,
Species Specificity: human	

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).

Storage

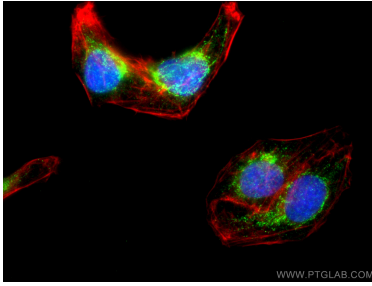
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

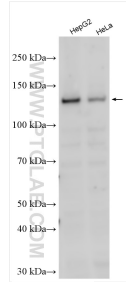
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.