

Rabbit POLRMT Polyclonal Antibody | anti-POLRMT antibody

POLRMT (CT) Antibody

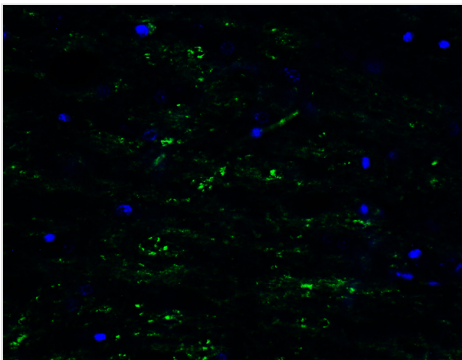
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40966	Rabbit	Human, Mouse, Rat	Immunofluorescence, Western Blot, ELISA

PRODUCT SYNONYMS

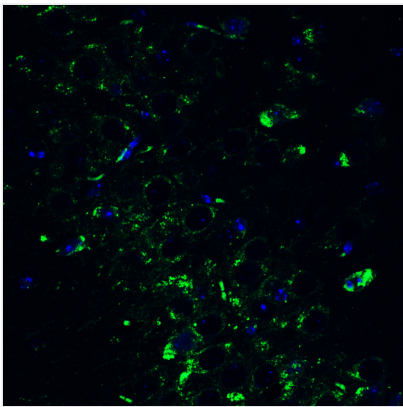
POLRMT; Polyclonal Antibody; POLRMT (CT) Antibody; DNA-directed RNA polymerase; mitochondrial; MtRPOL; POLRMT Isoforms; RNA polymerase mitochondrial; anti-POLRMT antibody

PRODUCT SPECIFICATIONS

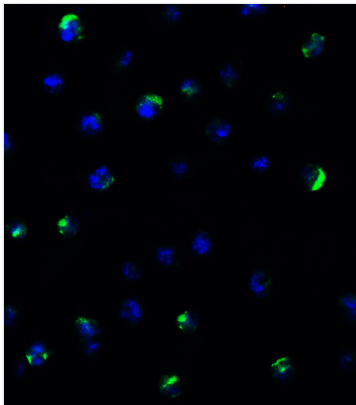
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	POLRMT Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; POLRMT Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-POLRMT antibody	IF (Immunofluorescence), WB (Western Blot), ELISA
Immunogen	Anti-POLRMT antibody (9561) was raised against a peptide corresponding to 11 amino acids near the carboxyl terminus of human POLRMT. The immunogen is located within the last 50 amino acids of POLRMT.
Homology	Predicted species reactivity based on immunogen sequence: Cow (82%); Chimpanzee (100%) ; monkey (82%); Cat (90%)
Research Area	Signal Transduction
NCBI Organism	Homo sapiens
Isoforms	Human POLRMT has 1 isoform (1230aa, 138.6kD). Mouse POLRMT has one isoform (1207aa, 136.7kD). Rat POLRMT has one isoform (1203aa, 135.8kD). can detect POLRMT in human, mouse and rat.
Preparation and Storage	POLRMT antibody can be stored at 4 degree C up to one year. Antibodies should not be exposed to prolonged high temperatures.



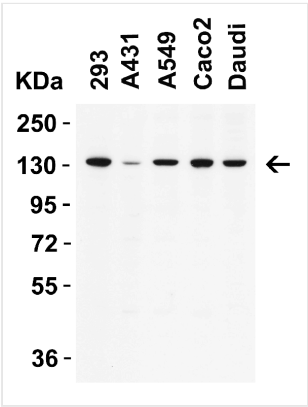
IF (Immunofluorescence)
Figure 4 Immunofluorescence Validation of POLRMT in Rat BrainImmunofluorescent analysis of 4% paraformaldehyde-fixed rat brain labeling POLRMT with AAA40966 at 10ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



IF (Immunofluorescence)
Figure 3 Immunofluorescence Validation of POLRMT in Mouse BrainImmunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain labeling POLRMT with AAA40966 at 10ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



IF (Immunofluorescence)
Figure 2 Immunofluorescence Validation of POLRMT in Daudi CellsImmunofluorescent analysis of 4% paraformaldehyde-fixed Daudi cells labeling POLRMT with AAA40966 at 10ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)
Figure 1 WB Validation in Human Cell Lines Loading: 15ug of lysate. Antibodies: POLRMT, 2ug/mL, 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-POLRMT antibody	POLRMT Antibody: This gene encodes a mitochondrial DNA-directed RNA polymerase. The gene product is responsible for mitochondrial gene expression as well as for providing RNA primers for initiation of replication of the mitochondrial genome. Although this polypeptide has the same function as the three nuclear DNA-directed RNA polymerases, it is more closely related to RNA polymerases of phage and mitochondrial polymerases of lower eukaryotes. TFB2M and POLRMT are essential for mammalian mitochondrial DNA replication. POLRMT mutations impair mitochondrial transcription causing neurological disease. Knock-down of MRPL12 by RNA interference results in instability of POLRMT.
Product Categories/Family for anti-POLRMT antibody	Primary Antibodies
References	Inatomi et al. Biochim Biophys Acta Mol Cell Res. 2022; 1869(1): 119167 Olahova et al. Nat Commun. 2021; 12(1):1135 Nouws et al. J Biol Chem 2016; 291(2):989-997

NCBI AND UNIPROT INFORMATION

NCBI GI #	50403691
NCBI GeneID	5442

UniProt Accession #	O0411
Molecular Weight	Predicted: 139kD Observed: 139kD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/polrmt-antibody-immunofluorescence-western-blot-elisa/40966>