

POLRMT Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF3994a**Specification**

POLRMT Antibody (C-Term) - Product Information

Application	E
Primary Accession	O00411
Other Accession	NP_005026.3 , 5442
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	138620

POLRMT Antibody (C-Term) - Additional Information**Gene ID** 5442**Other Names**

DNA-directed RNA polymerase, mitochondrial, MtrPOL, 2.7.7.6, POLRMT

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

POLRMT Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

POLRMT Antibody (C-Term) - Protein Information**Name** POLRMT ([HGNC:9200](#))**Function**

DNA-dependent RNA polymerase catalyzes the transcription of mitochondrial DNA into RNA using the four ribonucleoside triphosphates as substrates (PubMed:21278163, PubMed:33602924). Component of the mitochondrial transcription initiation complex, composed at least of TFB2M, TFAM and POLRMT that is required for basal transcription of mitochondrial DNA (PubMed:29149603). In this complex, TFAM recruits POLRMT to a specific promoter whereas TFB2M induces structural changes

in POLRMT to enable promoter opening and trapping of the DNA non- template strand (PubMed:29149603). Has DNA primase activity (PubMed:18685103, PubMed:33602924). Catalyzes the synthesis of short RNA primers that are necessary for the initiation of lagging-strand DNA synthesis from the origin of light-strand DNA replication (OriL) (PubMed:18685103, PubMed:33602924).

Cellular Location

Mitochondrion

POLRMT Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

POLRMT Antibody (C-Term) - Images**POLRMT Antibody (C-Term) - References**

Structure of human mitochondrial RNA polymerase. Ringel R, Sologub M, Morozov YI, Litonin D, Cramer P, Temiakov D. Nature 2011 Oct 478 (7368): 269-73. PMID: 21947009