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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 Cytomety
- 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