

Human DNA-directed RNA polymerase, mitochondrial (POLRMT) ELISA Kit



Catalog No: #EK11438

Orders: order@signalwayantibody.com

Package Size: #EK11438-1 48T #EK11438-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human DNA-directed RNA polymerase, mitochondrial (POLRMT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	APOLMT; MTRNAP; MTRPOL; h-mtRPOL; mitochondrial DNA-directed RNA polymerase
Accession No.	O00411
Uniprot	O00411
GeneID	5442;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate POLRMT in samples. An antibody specific for POLRMT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOLRMT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POLRMT is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of POLRMT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Mitochondria of all organisms contain a genome that is distinct from that of the nucleus. The circular mitochondrial chromosome contains 37 genes that encode the RNA components of the mitochondrial translational apparatus, i.e., 22 transfer RNAs and 2 ribosomal RNA genes, as well as 13 polypeptide-encoding genes.

POLRMT 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.

Note: This product is for in vitro research use only