

Human DNA polymerase nu (POLN) ELISA Kit

Catalog No: #EK11446



Package Size: #EK11446-1 48T #EK11446-2 96T

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Description

Product Name	Human DNA polymerase nu (POLN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-317B7.1; POL4P; DNA polymerase N DNA polymerase POL4P DNA-directed DNA polymerase nu
Accession No.	Q7Z5Q5
Uniprot	Q7Z5Q5
GeneID	353497;
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 POLN in samples. An antibody specific for POLN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOLN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POLN 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 POLN bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**POLN is predicted to contain a fingers-thumb-palm structure conserved in the PolA family. Northern blot analysis of human tissues detected an approximately 4-kb transcript in testis, heart, and skeletal muscle, and a 2-kb transcript in heart, liver, skeletal muscle, kidney, and pancreas. The 2-kb transcript was detected in a panel of human cancer cell lines, and the 4-kb transcript was detected only in a chronic myelogenous leukemia cell line. Both POLN and DNA helicase HEL308 showed high expression in human and mouse testis. In situ hybridization of mouse testis tissue localized the highest Poln expression to meiotic spermatocytes and postmeiotic round spermatids, while Hel308 expression occurred in primary spermatocytes but was not detected in round spermatids.

Note: This product is for in vitro research use only