

Mouse DNA-directed RNA polymerase I subunit RPA1 (POLR1A) ELISA Kit

Catalog No: #EK11444

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Package Size: #EK11444-1 48T #EK11444-2 96T

Description

Product Name	Mouse DNA-directed RNA polymerase I subunit RPA1 (POLR1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	A190; DKFZp586M0122; FLJ21915; MGC87965; RPA1; RPA194; RPO1-4; RPO14; DNA-directed RNA polymerase I A DNA-directed RNA polymerase I largest subunit DNA-directed RNA polymerase I subunit A1
Accession No.	O35134
Uniprot	O35134
GeneID	20019;
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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate POLR1A in samples. An antibody specific for POLR1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOLR1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POLR1A 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 POLR1A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**POLR1A belongs to the RNA polymerase beta' chain family.DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic core component of RNA polymerase I which synthesizes ribosomal RNA precursors. Forms the polymerase active center together with the second largest subunit. A single stranded DNA template strand of the promoter is positioned within the central active site cleft of Pol I. A bridging helix emanates from RPA1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol I by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition

Note: This product is for in vitro research use only