

Rat DNA-directed RNA polymerases I, II, and III subunit RPABC1 (POLR2E) ELISA Kit

Catalog No: #EK11441

Orders: order@signalwayantibody.com

Package Size: #EK11441-1 48T #EK11441-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat DNA-directed RNA polymerases I, II, and III subunit RPABC1 (POLR2E) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	RPABC1; RPB5; XAP4; hRPB25; hsRPB5; DNA directed RNA polymerase II 23 kda polypeptide DNA directed RNA polymerase II polypeptide E
Accession No.	B0BNE2
Uniprot	B0BNE2
GeneID	690966;
Storage	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. 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).

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 POLR2E in samples. An antibody specific for POLR2E has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOLR2E present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POLR2E 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 POLR2E bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**POLR2E encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11.

A second site of hybridization to 11q23.1 was thought to represent a pseudogene, most likely a retroposon, since no remnants of introns could be identified in the study of genomic DNA.

Note: This product is for in vitro research use only