Mouse DNA-directed RNA polymerases I and III subunit RPAC2 (POLR1D) ELISA Kit

Catalog No: #EK11443

Package Size: #EK11443-1 48T #EK11443-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse DNA-directed RNA polymerases I and III subunit RPAC2 (POLR1D) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	FLJ20616; MGC9850; POLR1C; RPA16; RPA9; RPAC2; RPO1-3; OTTHUMP00000018171|RNA polymerase I 16 kDa subunit|polymerase (RNA) I polypeptide D
Accession No.	P97304
Uniprot	P97304
GeneID	20018;
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 POLR1D in samples. An antibody specific for POLR1D has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOLR1D present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POLR1D 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 POLR1D bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The peak region of 13q contains POLR1D, a subunit of both RNA polymerases I and III. RNA polymerase I is involved in the production of 18S, 5.8S, and 28S rRNAs, while RNA polymerase III synthesizes small essential RNAs, such as tRNAs, 5S rRNA, and some snRNAs.There is not much information regarding this gene in the literature. POLR1D is overexpressed in 42% of the primary tumors, showing high correlation between expression and copy number.

RPA16 cDNA encoding the 16-kDa subunit of mouse RNA polymerase I by a yeast two-hybrid system using mRPA40 as a bait. The deduced amino acid sequence shows 45% identity to the yeast subunit of RNA polymerases I and III, known to associate with AC40, and a local similarity to bacterial alpha subunit.

Note: This product is for in vitro research use only