Product Datasheet

Rat Replication protein A 70 kDa DNA-binding subunit (RPA1) ELISA Kit

Catalog No: #EK11921

Package Size: #EK11921-1 48T #EK11921-2 96T

SA	B
Signalway Antib	ody

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Description	
Product Name	Rat Replication protein A 70 kDa DNA-binding subunit (RPA1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	HSSB; MST075; REPA1; RF-A; RP-A; RPA70; MSTP075 replication protein A1
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:0.312-20 ng/mL			
Sensitivity:0.128 ng/mL			
Sample Type:Serum, Plasma, C	ther 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 RPA1 in samples. An antibody specific for RPA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRPA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RPA1 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 RPA1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Replication protein A (RPA) is a 3-subunit single-stranded DNA (ssDNA)-binding protein that has been isolated from human cells and found to be essential for in vitro replication of the papovavirus SV40. The human cDNA directed production in E. coli of a 70-kD protein that reacted with a monoclonal antibody directed against the 70-kD subunit of the human protein. The recombinant subunit, purified from bacteria, exhibited single-stranded DNA-binding activity comparable to that of the complete RPA complex. It could substitute for the complete complex in stimulating the activity of DNA polymerase alpha-primase, but could not substitute for the complex in SV40 DNA replication in vitro, suggesting an important functional role for the other subunits.

Note: This product is for in vitro research use only