

Datasheet for ABIN5658446 **RPA1 ELISA Kit**



Overview

Quantity:	96 tests
Target:	RPA1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA

Product Details

Sample Type:	Cell Lysate, Tissue Homogenate	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay has high sensitivity and excellent specificity for detection of Replication Protein A1 (RPA1). No significant cross-reactivity or interference between Replication Protein A1 (RPA1) and analogues was observed.	
Sensitivity:	0.128 ng/mL	
Target Details		
Target:	RPA1	
Alternative Name:	Replication Protein A1 (RPA1 Products)	

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Background:	Gene Name: Replication Protein A1		
	Gene Aliases: HSSB, REPA1, RF-A, RP-A, RPA70, Replication protein A 70 kDa DNA-binding		
	subunit, Single-stranded DNA-binding protein		
Pathways:	Telomere Maintenance, DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication,		
	Chromatin Binding, Synthesis of DNA		
Application Details			
Comment:	The stability of 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. To minimize extra influence		
	on the performance, operation procedures and lab conditions, especially room temperature, air		
	humidity, incubator temperature should be strictly controlled. It is also strongly suggested that		
	the whole assay is performed by the same operator from the beginning to the end.		
Assay Time:	3 h		
Plate:	Pre-coated		
Protocol:	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate		
	provided in this kit has been pre-coated with an antibody specific to Replication Protein A1		
	(RPA1). Standards or samples are then added to the appropriate microtiter plate wells with a		
	biotin-conjugated antibody specific to Replication Protein A1 (RPA1). Next, Avidin conjugated to		
	Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB		
	substrate solution is added, only those wells that contain Replication Protein A1 (RPA1), biotin-		
	conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-		
	substrate reaction is terminated by the addition of sulphuric acid solution and the color change		
	is measured spectrophotometrically at a wavelength of 450nm \pm 10nm. The concentration of		
	Replication Protein A1 (RPA1) in the samples is then determined by comparing the O.D. of the		
	samples to the standard curve.		
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level		
	Replication Protein A1 (RPA1) were tested 20 times on one plate, respectively		
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level		
	Replication Protein A1 (RPA1) were tested on 3 different plates, 8 replicates in each plate.		
	CV(%) = SD/meanX100		
	Intra-Assay: CV<10%		
	Inter-Assay: CV<12%		
Restrictions:	For Research Use only		

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Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.
Storage:	4 °C,-20 °C
Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months