

Datasheet for ABIN5652087

ATP7B ELISA Kit



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Quantity:	96 tests
Target:	ATP7B
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

Product Details

Sample Type:	Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of ATPase, Cu++ Transporting Beta Polypeptide (ATP7b). No significant cross-reactivity or interference between ATPase, Cu++ Transporting Beta Polypeptide (ATP7b) and analogues was observed.
Sensitivity:	0.056 ng/mL

Target Details

Target:	ATP7B
Alternative Name:	ATPase, Cu++ Transporting Beta Polypeptide (ATP7B Products)

Target Details

Background:	Gene Name: ATPase, Cu++ Transporting Beta Polypeptide		
	Gene Aliases: PWD, WC1, WD, WND, Wilson Disease Protein, Copper pump 2, Wilson disease- associated protein		
0 10			
Gene ID:	540		
UniProt:	P35670		
Pathways:	Transition Metal Ion Homeostasis, Ribonucleoside Biosynthetic Process		
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 ATPase, Cu++ Transporting		
	Beta Polypeptide (ATP7b). Standards or samples are then added to the appropriate microtiter		
	plate wells with a biotin-conjugated antibody specific to ATPase, Cu++ Transporting Beta		
	Polypeptide (ATP7b). 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 ATPase, Cu++ Transporting Beta Polypeptide (ATP7b), 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 ± 10nm. The concentration of ATPase, Cu++		
	Transporting Beta Polypeptide (ATP7b) 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		
	ATPase, Cu++ Transporting Beta Polypeptide (ATP7b) were tested 20 times on one plate,		
	respectively		
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level		
	ATPase, Cu++ Transporting Beta Polypeptide (ATP7b) were tested on 3 different plates, 8		
	replicates in each plate. CV(%) = SD/meanX100		

Application Details

	Intra-Assay: CV<10%
	Inter-Assay: CV<12%
Restrictions:	For Research Use only
Handling	
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