

Datasheet for ABIN5657781 PIK3CB ELISA Kit



Overview

Quantity:	96 tests
Target:	PIK3CB
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 Phosphoinositide-3-K inase Catalytic Beta Polypeptide (PIK3Cb). No significant cross-reactivity or interference between Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) and analogues was observed.
Sensitivity:	0.059 ng/mL

Target Details

Target:	PIK3CB
Alternative Name:	Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3CB Products)

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Background:	Gene Name: Phosphoinositide-3-Kinase Catalytic Beta Polypeptide
	Gene Aliases: PI3K, PI3Kbeta, PIK3C1, p110-BETA, Phosphatidylinositol 4,5-bisphosphate 3-
	kinase 110 kDa catalytic subunit beta
JniProt:	P42338
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, ai
	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 Phosphoinositide-3-Kinas
	Catalytic Beta Polypeptide (PIK3Cb). Standards or samples are then added to the appropriate
	microtiter plate wells with a biotin-conjugated antibody specific to Phosphoinositide-3-Kinase
	Catalytic Beta Polypeptide (PIK3Cb). 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 Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb), 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
	Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) 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
	Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) were tested 20 times on one
	plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Phosphoinositide-3-Kinase Catalytic Beta Polypeptide (PIK3Cb) were tested on 3 different
	plates, 8 replicates in each plate. CV(%) = SD/meanX100
	Intra-Assay: CV<10%
	Inter-Assay: CV<12%

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Application Details	
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