

Datasheet for ABIN5652483

CACNA1C ELISA Kit



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Quantity:	96 tests
Target:	CACNA1C
Reactivity:	Mouse
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:	Tissue Homogenate	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay has high sensitivity and excellent specificity for detection of Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C). No significant cross-reactivity or interference between Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C) and analogues was observed.	
Sensitivity:	0.115 ng/mL	

Target Details

Target:	CACNA1C
Alternative Name:	Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNA1C Products)

Target Details

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Background:	Gene Name: Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit Gene Aliases: CACH2, CACN2, CACNL1A1, CCHL1A1, CaV1.2, TS, Voltage-gated calcium channel subunit alpha Cav1.2, Calcium channel, L type, alpha-1 polypeptide, isoform 1, cardiac muscle	
Gene ID:	12288	
UniProt:	Q01815	
Pathways:	Hormone Transport, Carbohydrate Homeostasis	
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 Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C). 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 Calcium Channel, Voltage Dependent L-Type, Alpha 1C Subunit (CACNa1C), 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 Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C) 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 Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level	

Application Details

	Calcium Channel, Voltage Dependent, L-Type, Alpha 1C Subunit (CACNa1C) 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
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