

Datasheet for ABIN5652490 CACNA1E ELISA Kit



Overview

Quantity:	96 tests
Target:	CACNA1E
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:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Calcium Channel, Voltage Dependent, R-Type, Alpha 1E Subunit (CACNa1E). No significant cross-reactivity or interference between Calcium Channel, Voltage Dependent, R-Type, Alpha 1E Subunit (CACNa1E) and analogues was observed.
Sensitivity:	0.125 ng/mL

Target Details

Target:	CACNA1E
Alternative Name:	Calcium Channel, Voltage Dependent, R-Type, Alpha 1E Subunit (CACNA1E Products)

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Background:	Gene Name: Calcium Channel, Voltage Dependent, R-Type, Alpha 1E Subunit
	Gene Aliases: BII, CACNL1A6, CACH6, Brain calcium channel II, Calcium channel, L type, alpha-
	polypeptide, isoform 6, Voltage-gated calcium channel subunit alpha Cav2.3
Pathways:	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, R-Type, Alpha 1E Subunit (CACNa1E). Standards or samples are then added to the
	appropriate microtiter plate wells with a biotin-conjugated antibody specific to Calcium
	Channel, Voltage Dependent, R-Type, Alpha 1E Subunit (CACNa1E). 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
	R-Type, Alpha 1E Subunit (CACNa1E), 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 a
	a wavelength of 450nm \pm 10nm. The concentration of Calcium Channel, Voltage Dependent, R-
	Type, Alpha 1E Subunit (CACNa1E) in the samples is then determined by comparing the O.D. o
	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, R-Type, Alpha 1E Subunit (CACNa1E) were tested 20
	times on one plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Calcium Channel, Voltage Dependent, R-Type, Alpha 1E Subunit (CACNa1E) were tested on 3
	different plates, 8 replicates in each plate. CV(%) = SD/meanX100
	Intra-Assay: CV<10%

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Application Details		
	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	