

Datasheet for ABIN5652561

CA12 ELISA Kit



Overview

Quantity:	96 tests
Target:	CA12
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.62 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.62 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Carbonic Anhydrase XII (CA12). No significant cross-reactivity or interference between Carbonic Anhydrase XII (CA12) and analogues was observed.
Sensitivity:	6.6 pg/mL

Target Details

Target:	CA12
Alternative Name:	Carbonic Anhydrase XII (CA12 Products)

Target Details

Background:	Gene Name: Carbonic Anhydrase XII
	Gene Aliases: CA-XII, CAXII, Carbonate dehydratase XII, Tumor antigen HOM-RCC-3.1.3
Gene ID:	771
UniProt:	043570
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 Carbonic Anhydrase XII
	(CA12). Standards or samples are then added to the appropriate microtiter plate wells with a
	biotin-conjugated antibody specific to Carbonic Anhydrase XII (CA12). 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 Carbonic Anhydrase XII (CA12), biotir
	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
	Carbonic Anhydrase XII (CA12) 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
	Carbonic Anhydrase XII (CA12) were tested 20 times on one plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Carbonic Anhydrase XII (CA12) 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