

Mouse Carbonic Anhydrase VI (CA6) ELISA Kit | CA6 elisa kit

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CATALOG #
AAA161647

REACTIVITY
Mouse

PRODUCT SYNONYMS

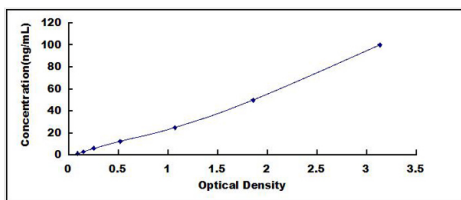
Carbonic Anhydrase VI (CA6); Mouse Carbonic Anhydrase VI (CA6) ELISA Kit; CA6 ELISA kit (Mouse); CA-VI; CAVI; GUSTIN; Carbonate dehydratase VI; Salivary carbonic anhydrase; Secreted carbonic anhydrase; CA6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Carbonic Anhydrase VI (CA6). No significant cross-reactivity or interference between Carbonic Anhydrase VI (CA6) and analogues was observed. Reactive with Mouse CA6/Carbonic Anhydrase VI
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Saliva and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	1.56-100ng/mL
Sensitivity	0.54ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Carbonic Anhydrase VI (CA6) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Carbonic Anhydrase VI (CA6) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	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 VI (CA6). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Carbonic Anhydrase VI (CA6). 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 VI (CA6), 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 Carbonic Anhydrase VI (CA6) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for CA6 ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	157951678
NCBI GeneID	12353
NCBI Accession #	NP_033932.2
NCBI GenBank Nucleotide #	NM_009802.2
UniProt Accession #	P18761; O88625; B1ARR5
Molecular Weight	36,495 Da
NCBI Official Full Name	carbonic anhydrase 6
NCBI Official Synonym Full Names	carbonic anhydrase 6
NCBI Official Symbol	Car6
NCBI Official Synonym Symbols	Ca6; DOC1
NCBI Protein Information	carbonic anhydrase 6
UniProt Protein Name	Carbonic anhydrase 6
UniProt Gene Name	Ca6
UniProt Synonym Gene Names	Car6; CA-VI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.