

Human Carbonic Anhydrase VB, Mitochondrial (CA5B) ELISA Kit | CA5B elisa kit

Human Carbonic Anhydrase VB, Mitochondrial (CA5B) ELISA Kit

CATALOG #
AAA137573

REACTIVITY
Human

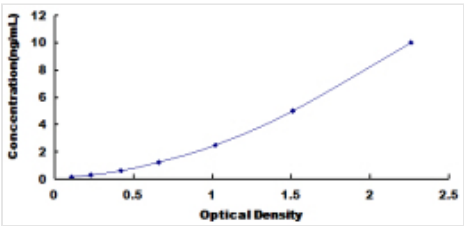
PRODUCT SYNONYMS

Carbonic Anhydrase VB; Mitochondrial (CA5B); Human Carbonic Anhydrase VB; Mitochondrial (CA5B) ELISA Kit; CA-VB; CAVB; Carbonate dehydratase VB; CA5B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Carbonic Anhydrase VB, Mitochondrial (CA5B). No significant cross-reactivity or interference between Carbonic Anhydrase VB, Mitochondrial (CA5B) and analogues was observed.
Sequence Length	317
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Saliva and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.067ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Carbonic Anhydrase VB, Mitochondrial (CA5B) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Carbonic Anhydrase VB, Mitochondrial (CA5B) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	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)

ADDITIONAL INFORMATION

Related Product Information for CA5B elisa kit	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 VB, Mitochondrial (CA5B). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Carbonic Anhydrase VB, Mitochondrial (CA5B). 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 VB, Mitochondrial (CA5B), 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 VB, Mitochondrial (CA5B) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CA5B elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	119619304
NCBI GeneID	11238
UniProt Accession #	Q9Y2D0; A8K4T5
Molecular Weight	36,434 Da
NCBI Official Full Name	carbonic anhydrase VB, mitochondrial, isoform CRA_c
NCBI Official Synonym Full Names	carbonic anhydrase VB, mitochondrial
NCBI Official Symbol	CA5B
NCBI Official Synonym Symbols	CA-VB
NCBI Protein Information	carbonic anhydrase 5B, mitochondrial
UniProt Protein Name	Carbonic anhydrase 5B, mitochondrial
UniProt Gene Name	CA5B
UniProt Synonym Gene Names	CA-VB
UniProt Entry Name	CAH5B_HUMAN

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.