

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

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CATALOG #
AAA63935

REACTIVITY
Human

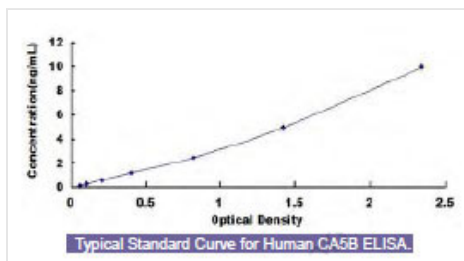
PRODUCT SYNONYMS

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 CA5B. No significant cross-reactivity or interference between CA5B and analogues was observed.
Sequence Length	317
Samples	Serum, plasma and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.058ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CA5B were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CA5B were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA5B elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CA5B in human serum, plasma and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CA5B. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 CA5B in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6005723
NCBI GeneID	11238
NCBI Accession #	NP_009151.1
NCBI GenBank Nucleotide #	NM_007220.3
UniProt Accession #	Q9Y2D0; A8K4T5
Molecular Weight	36,434 Da
NCBI Official Full Name	carbonic anhydrase 5B, mitochondrial
NCBI Official Synonym Full Names	carbonic anhydrase 5B
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

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/carbonic-anhydrase-vb-mitochondrial-ca5b/63935>