

Human Carbonic anhydrase 1 ELISA Kit | CA1 elisa kit

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CATALOG #
AAA99405

REACTIVITY
Human

PRODUCT SYNONYMS

Carbonic anhydrase 1; Human Carbonic anhydrase 1 ELISA Kit; CA1 (Carbonic Anhydrase I)/CA-I/Car1/Carbonate dehydratase I/Carbonic anhydrase B/carbonic anhydrase ICAB/carbonic dehydratase; CA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of C9. No significant crossreactivity or interference between C9 and analogues was observed.
Sequence Length	336
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level C9 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level C9 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a CA1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.095	0.132	0.180	0.270	0.512	0.861	1.487	2.395

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-C9 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-C9 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the C9 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of C9 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	30678353
NCBI GeneID	821134
NCBI Accession #	NP_850491.1
NCBI GenBank Nucleotide #	NM_180160.3
Molecular Weight	29,504 Da
NCBI Official Full Name	carbonic anhydrase 1
NCBI Official Symbol	CA1
NCBI Official Synonym Symbols	ARABIDOPSIS THALIANA SALICYLIC ACID-BINDING PROTEIN 3; ATBCA1; ATSABP3; BETA CARBONIC ANHYDRASE 1; CA1; carbonic anhydrase 1; F4P13.5; F4P13_5; SABP3; SALICYLIC ACID-BINDING PROTEIN 3
NCBI Protein Information	carbonic anhydrase 1
UniProt Protein Name	Beta carbonic anhydrase 1, chloroplastic
UniProt Gene Name	BCA1
UniProt Synonym Gene Names	AtbCA1; AtbetaCA1; AtSABP3
UniProt Entry Name	BCA1_ARATH

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/ca1-human-elisa-kits/carbonic-anhydrase-1/99405>