

Human Carbonic Anhydrase I ELISA Kit | CA1 elisa kit

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CATALOG #
AAA16572

REACTIVITY
Human

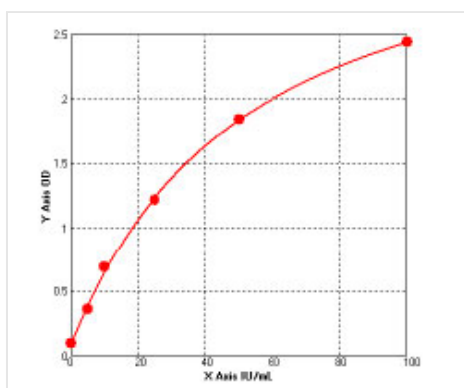
PRODUCT SYNONYMS

Carbonic Anhydrase I; Human Carbonic Anhydrase I ELISA Kit; CA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA1 elisa kit

Intended Uses: This CA ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine CA. This ELISA kit for research use only!

Principle of the Assay: CA ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CA antibody and an CA-HRP conjugate. The assay sample and buffer are incubated together with CA-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CA concentration since CA from samples and CA-HRP conjugate compete for the anti-CA antibody binding site. Since the number of sites is limited, as more sites are occupied by CA from the sample, fewer sites are left to bind CA-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CA concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20380766
NCBI GeneID	759
Molecular Weight	28,870 Da
NCBI Official Full Name	CA1 protein
NCBI Official Synonym Full Names	carbonic anhydrase I
NCBI Official Symbol	CA1
NCBI Official Synonym Symbols	CAB; CA-I; Car1; HEL-S-11
NCBI Protein Information	carbonic anhydrase 1; carbonic anhydrase B; carbonate dehydratase I; epididymis secretory protein Li 11
UniProt Protein Name	Carbonic anhydrase 1
UniProt Gene Name	CA1
UniProt Synonym Gene Names	CAB; CA-I
UniProt Entry Name	CAH1_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.

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Online datasheet: <https://stage.aaabiotech.com/ca1-human-elisa-kits/carbonic-anhydrase-i/16572>