

Canine Carbonic Anhydrase I ELISA Kit | CA1 elisa kit

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CATALOG #
AAA90809

REACTIVITY
Canine

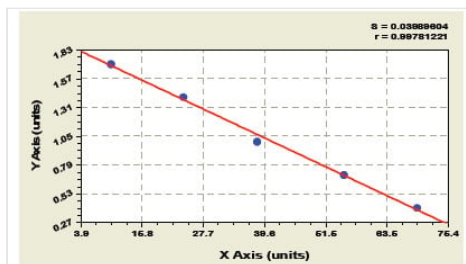
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50 IU/mL
Sensitivity	0.1 IU/mL
Intended Uses	This CA-1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine CA-1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA1 elisa kit

Principle of the Assay: CA-1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CA-1 antibody and an CA-1-HRP conjugate. The assay sample and buffer are incubated together with CA-1-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-1 concentration since CA-1 from samples and CA-1-HRP conjugate compete for the anti-CA-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CA-1 from the sample, fewer sites are left to bind CA-1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CA-1 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-canine-elisa-kits/carbonic-anhydrase-i/90809>