

Mouse Carbonic Anhydrase I ELISA Kit | CA1 elisa kit

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CATALOG #
AAA85263

REACTIVITY
Mouse

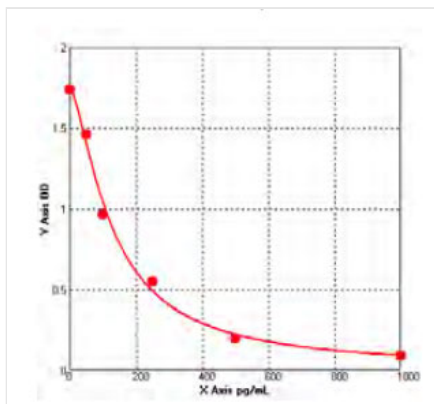
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CA1. No significant cross-reactivity or interference between CA1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CA1 and all the analogues, therefore, cross reaction may still exist in some cases.
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 CA1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse CA1. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CA1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-CA1 antibody and an CA1-HRP conjugate. The assay sample and buffer are incubated together with CA1-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 CA1 concentration since CA1 from samples and CA1-HRP conjugate compete for the anti-CA1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CA1 from the sample, fewer sites are left to bind CA1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CA1 concentration in each sample is interpolated from this standard curve.
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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.