

Mouse CA12 ELISA Kit | CA12 elisa kit

Mouse CA12 PicoKine ELISA Kit

CATALOG #
AAA125192

REACTIVITY
Mouse

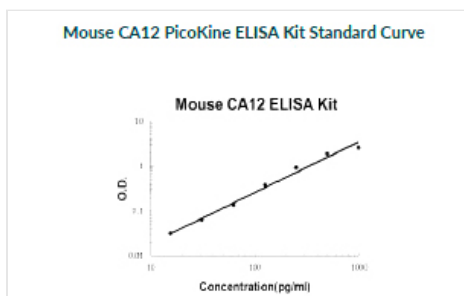
PRODUCT SYNONYMS

CA12; Mouse CA12 PicoKine ELISA Kit; Mouse CA12; Carbonic anhydrase 12 (EC:4.2.1.1); Carbonate dehydratase XII; Carbonic anhydrase XII; CA-XII; Ca12; Car12; CA12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Ca12
Sequence Length	344
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA12 elisa kit	Principle of the Assay: The Picokine™ Mouse Ca12 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Ca12 with a 96-well strip plate that is pre-coated with antibody specific for Ca12. The detection antibody is a biotinylated antibody specific for Ca12. The capture antibody is a monoclonal antibody from rat, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse Ca12 with immunogen: Expression system for standard: NSO, Immunogen sequence: A25-S301. The kit is analytically validated with ready to use reagents. To measure Mouse Ca12, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Mouse Ca12 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Ca12 in the sample.!!Background/Introduction: Carbonic anhydrase 12 is an enzyme that in humans is encoded by the CA12 gene. It is mapped to 9; 9 C. This gene encodes a membrane-bound member of the alpha carbonic anhydrase family of enzymes that catalyze the reversible hydration of carbon dioxide to bicarbonate. These proteins participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. Alternative splicing results in multiple transcript variants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	807066356
NCBI GeneID	76459
NCBI Accession #	NP_001293077.1
NCBI GenBank Nucleotide #	NP_001293077.1
UniProt Accession #	Q8CI85
NCBI Official Full Name	carbonic anhydrase 12 isoform 2
NCBI Official Synonym Full Names	carbonic anhydrase 12
NCBI Official Symbol	Car12
NCBI Official Synonym Symbols	Ca12; CA-XII; AI314958; 2310047E01Rik
NCBI Protein Information	carbonic anhydrase 12
UniProt Protein Name	Carbonic anhydrase 12
UniProt Gene Name	Ca12
UniProt Synonym Gene Names	Car12; CA-XII

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.