

Mouse Ca12 (Carbonic anhydrase 12) ELISA Kit | Ca12 elisa kit

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CATALOG #
AAA251036

REACTIVITY
Mouse

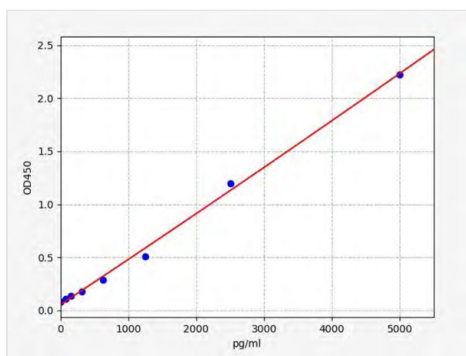
PRODUCT SYNONYMS

Ca12 (Carbonic anhydrase 12); Mouse Ca12 (Carbonic anhydrase 12) ELISA Kit; Ca12; Carbonic anhydrase 12; Carbonate dehydratase XII; Carbonic anhydrase XII (CA-XII); Ca12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize Ca12, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	78-5000pg/ml
Sensitivity	46.9pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Ca12 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Ca12 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti Ca12 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with Ca12 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of Ca12 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	807066356
NCBI GeneID	76459
NCBI Accession #	NP_001293077.1
NCBI GenBank Nucleotide #	NM_001306148.1
UniProt Accession #	Q8CI85; Q8BKG6
Molecular Weight	39,695 Da
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.