

Human Carbonic Anhydrase 9 ELISA Kit | CA9 elisa kit

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CATALOG # AAA105999	REACTIVITY Human	APPLICATIONS ELISA
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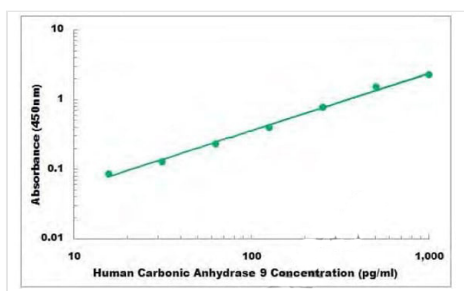
PRODUCT SYNONYMS

Carbonic Anhydrase 9; Human Carbonic Anhydrase 9 ELISA Kit; G250; MN; Carbonic anhydrase 9; Carbonate dehydratase IX; Carbonic anhydrase IX; CA-IX; CAIX; Membrane antigen MN; P54/58N; Renal cell carcinoma-associated antigen G250; RCC-associated antigen G250; pMW1; CA9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Carbonic Anhydrase 9 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Carbonic Anhydrase 9 proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Sequence Length	459
Samples	Cell culture supernatants, serum, plasma, urine
Sensitivity	< 10 pg/ml
Applicable Applications for CA9 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA9 elisa kit	Principle of the Assay: The AAA Biotech' Human Carbonic Anhydrase 9 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Carbonic Anhydrase 9 in Cell Culture Supernatants, Serum, Plasma, Urine. This assay employs an antibody specific for Human Carbonic Anhydrase 9 coated on a 96-well plate. Standards and samples are pipetted into the wells and Carbonic Anhydrase 9 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Carbonic Anhydrase 9 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Carbonic Anhydrase 9 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Carbonic anhydrase 9 (CA9/CAIX) is an enzyme that in humans is encoded by the CA9 gene. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They 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. This gene is mapped to 9p13.3. CA IX is a transmembrane protein and the only tumor-associated carbonic anhydrase isoenzyme known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	169636420
NCBI GeneID	768
NCBI Accession #	NP_001207.2
NCBI GenBank Nucleotide #	NM_001216.2
UniProt Accession #	Q16790; Q5T4R1
Molecular Weight	49,698 Da
NCBI Official Full Name	carbonic anhydrase 9
NCBI Official Synonym Full Names	carbonic anhydrase IX
NCBI Official Symbol	CA9
NCBI Official Synonym Symbols	MN; CAIX
NCBI Protein Information	carbonic anhydrase 9; pMW1; CA-IX; P54/58N; membrane antigen MN; carbonic dehydratase; carbonate dehydratase IX; RCC-associated antigen G250; RCC-associated protein G250; renal cell carcinoma-associated antigen G250
UniProt Protein Name	Carbonic anhydrase 9
UniProt Gene Name	CA9
UniProt Synonym Gene Names	G250; MN; CA-IX; CAIX; RCC-associated antigen G250
UniProt Entry Name	CAH9_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.