

ARG81706 Human CA9 / Carbonic Anhydrase 9 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81706-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81706-002	Standard	2 X 10 ng/vial	4°C
ARG81706-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81706-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81706-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81706-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81706-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81706-008	25X Wash buffer	20 ml	4°C
ARG81706-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81706-010	STOP solution	10 ml (Ready to use)	4°C
ARG81706-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81706 Human CA9 / Carbonic Anhydrase 9 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CA9 / Carbonic Anhydrase 9 in serum, plasma (heparin, EDTA, citrate), urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CA9 / Carbonic Anhydrase 9
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA, citrate), urine and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.5%; Inter-Assay CV: 7.3%
Alternate Names	EC 4.2.1.1; MN; CAIX; pMW1; Carbonic anhydrase 9; Carbonic anhydrase IX; RCC-associated antigen G250; Membrane antigen MN; P54/58N; Carbonate dehydratase IX; Renal cell carcinoma-associated antigen G250; CA-IX

Application Instructions

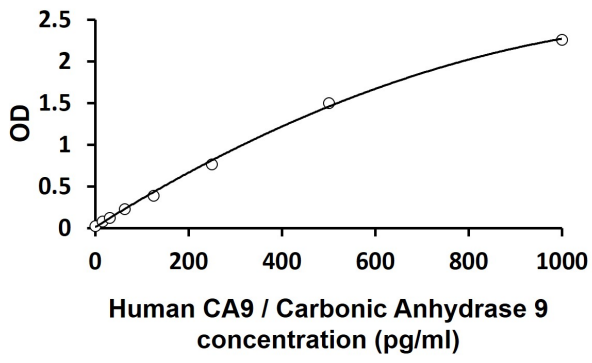
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CA9
Gene Full Name	carbonic anhydrase IX
Background	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. They show extensive diversity in tissue distribution and in their subcellular localization. CA IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes 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. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq, Jun 2014]
Function	Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia. [UniProt]
Highlight	Related products: Carbonic Anhydrase antibodies ; Carbonic Anhydrase ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Asn-346 bears high-mannose type glycan structures. [UniProt]



ARG81706 Human CA9 / Carbonic Anhydrase 9 ELISA Kit standard curve image

ARG81706 Human CA9 / Carbonic Anhydrase 9 ELISA Kit results of a typical standard run with optical density reading at 450 nm.