

# Product datasheet

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## 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	Application ELISA		
Specificity	There is no detectable cross-reactivity with other relevant proteins.		
Target Name	CA9 / Carbonic Anhydrase 9		
Conjugation	HRP		
Conjugation Note	on Note Substrate: TMB and read at 450 nm.		
Sensitivity	7.8 pg/ml		
Sample Type	Type Serum, plasma (heparin, EDTA, citrate), urine and cell culture supernatants.		
Standard Range	dard Range 15.6 - 1000 pg/ml		
Sample Volume	100 μΙ		

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

#### **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.

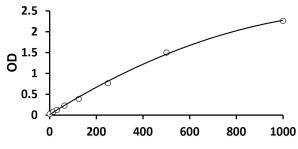
[UniProt]

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]



Human CA9 / Carbonic Anhydrase 9 concentration (pg/ml)

 $\label{lem:argan} \mbox{ARG81706 Human CA9 / Carbonic Anhydrase 9 ELISA Kit standard curve image}$ 

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