

## ARG82735 Mouse CA12 / Carbonic Anhydrase 12 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82735-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82735-002	Standard	2 X 10 ng/vial	4°C
ARG82735-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82735-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82735-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82735-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82735-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82735-008	25X Wash buffer	20 ml	4°C
ARG82735-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82735-010	STOP solution	10 ml (Ready to use)	4°C
ARG82735-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82735 Mouse CA12 / Carbonic Anhydrase 12 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CA12 / Carbonic Anhydrase 12 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	CA12 / Carbonic Anhydrase 12
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.9%

Inter-Assay CV: 6.1%

#### Alternate Names

Carbonic anhydrase 12; EC 4.2.1.1; Carbonate dehydratase XII; Ca12; Carbonic anhydrase XII; CA-XII; AI314958; 2310047E01Rik

## Application Instructions

Assay Time ~ 5 hours

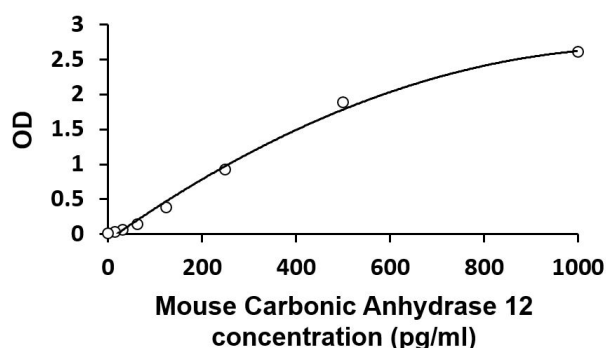
## Properties

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	Car12
Gene Full Name	carbonic anhydrase 12
Background	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. [provided by RefSeq, Apr 2015]
Function	Reversible hydration of carbon dioxide. [UniProt]
Highlight	Related products: <a href="#">Carbonic Anhydrase antibodies: Carbonic Anhydrase ELISA Kits:</a> New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>

## Images



ARG82735 Mouse CA12 / Carbonic Anhydrase 12 ELISA Kit standard curve image

ARG82735 Mouse CA12 / Carbonic Anhydrase 12 ELISA Kit results of a typical standard run with optical density reading at 450 nm.