

## Human Carbonic anhydrase 2 ELISA Kit | CA2 elisa kit

Human Carbonic anhydrase 2 ELISA Kit

CATALOG #  
AAA102076

REACTIVITY  
Human

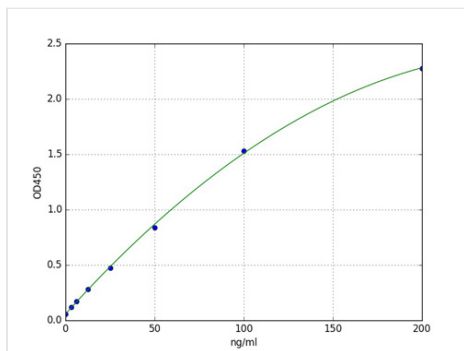
### PRODUCT SYNONYMS

Carbonic anhydrase 2; Human Carbonic anhydrase 2 ELISA Kit; CA2 (Carbonic Anhydrase II)/Carbonic anhydrase 2/CA-II/Carbonic anhydrase C/CAC; CA2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Sequence Length         | 260                                                                                                                                                          |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                              |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                         |
| Detection Range         | 3.125-200ng/ml                                                                                                                                               |
| Sensitivity             | 1.875ng/ml                                                                                                                                                   |
| 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)

**Typical Data & Standard Curve**  
Results of a typical standard run of a Human CA2 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

| X | ng/ml | 0     | 3.125 | 6.25  | 12.5  | 25    | 50    | 100   | 200   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.049 | 0.118 | 0.192 | 0.330 | 0.535 | 1.009 | 1.705 | 2.488 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for CA2 elisa kit

**Principle of the Assay**||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human CA2 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human CA2 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CA2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human CA2 can be calculated.

### NCBI AND UNIPROT INFORMATION

NCBI GI #

4557395

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GeneID                      | <a href="#">760</a>                       |
| NCBI Accession #                 | <a href="#">NP_000058.1</a>               |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000067.2</a>               |
| Molecular Weight                 | 29,246 Da                                 |
| NCBI Official Full Name          | carbonic anhydrase 2 isoform 1            |
| NCBI Official Synonym Full Names | carbonic anhydrase II                     |
| NCBI Official Symbol             | CA2                                       |
| NCBI Official Synonym Symbols    | CAC; CAII; Car2; CA-II; HEL-76; HEL-S-282 |
| NCBI Protein Information         | carbonic anhydrase 2                      |
| UniProt Protein Name             | Carbonic anhydrase 2                      |
| UniProt Gene Name                | <b>CA2</b>                                |
| UniProt Synonym Gene Names       | CAC; CA-II                                |
| UniProt Entry Name               | CAH2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/ca2-human-elisa-kits/carbonic-anhydrase-2/102076>