

## Human carbonic anhydrase 2, CA-2 ELISA Kit | CA-2 elisa kit

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CATALOG #  
**AAA41194**

REACTIVITY  
**Human**

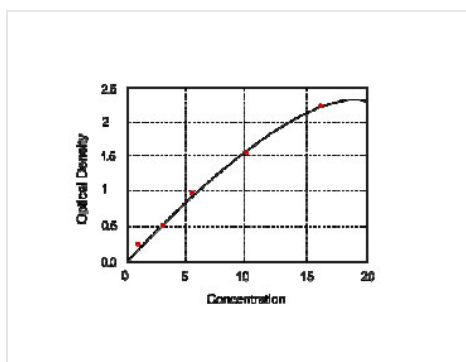
### PRODUCT SYNONYMS

carbonic anhydrase 2; CA-2; Human carbonic anhydrase 2; CA-2 ELISA Kit; CA-2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                            |
| Sequence Length         | 260                                                                                                                                                                                              |
| Samples                 | Serum, plasma, cell culture supernates, cell lysates, tissue homogenates                                                                                                                         |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                            |
| Detection Range         | 0.1ng/ml - 40ng/ml                                                                                                                                                                               |
| Sensitivity             | 0.053ng/ml                                                                                                                                                                                       |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision. Intra-Assay: CV<8%                              |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. CV(%) = SD/mean x 100. Inter-Assay: CV<10% |
| Preparation and Storage | Store at 2 to 8 degree C for 6 months.                                                                                                                                                           |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Related Product Information for CA-2 elisa kit | <p>Intended Uses: This sandwich kit is for the accurate quantitative detection of human Carbonic anhydrase 2 (also known as CA-2) in serum, plasma, cell culture supernates, cell lysates, tissue homogenates.</p> <p>Principle of the Assay: This kit is an Enzyme-Linked Immunosorbent Assay (ELISA). The plate has been pre-coated with human CA-2 antibody. CA-2 present in the sample is added and binds to antibodies coated on the wells. And then biotinylated human CA-2 Antibody is added and binds to CA-2 in the sample. Then Streptavidin-HRP is added and binds to the Biotinylated CA-2 antibody. After incubation unbound Streptavidin-HRP is washed away during a washing step. Substrate solution is then added and color develops in proportion to the amount of human CA-2. The reaction is terminated by addition of acidic stop solution and absorbance is measured at 450 nm.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 4557395                                   |
| NCBI GeneID                      | 760                                       |
| NCBI Accession #                 | NP_000058.1                               |
| NCBI GenBank Nucleotide #        | NM_000067.2                               |
| UniProt Accession #              | P00918; Q6FI12; Q96ET9; B2R7G8            |
| Molecular Weight                 | 29,246 Da                                 |
| NCBI Official Full Name          | carbonic anhydrase 2 isoform 1            |
| NCBI Official Synonym Full Names | carbonic anhydrase 2                      |
| 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                | CA2                                       |
| UniProt Synonym Gene Names       | CAC; CA-II                                |

**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.