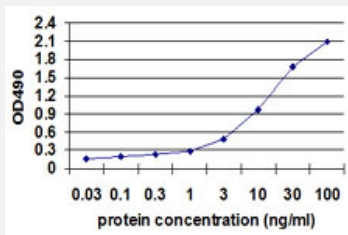


# CA1 (Human) Matched Antibody Pair

Catalog # H00000759-AP11      Size 1 Set

## Applications



Sandwich ELISA detection sensitivity ranging from 0.3 ng/ml to 100 ng/ml.

## Specification

|                                      |  |
|--------------------------------------|--|
| <b>Product Description</b>           | This antibody pair set comes with a matched antibody pair to detect and quantify the protein level of human CA1.   |
| <b>Reactivity</b>                    | Human  |
| <b>Interspecies Antigen Sequence</b> | Mouse (84%); Rat (89%)   |
| <b>Quality Control Testing</b>       | Standard curve using recombinant protein ( H00000759-P01 ) as an analyte.<br>Sandwich ELISA detection sensitivity ranging from 0.3 ng/ml to 100 ng/ml.   |
| <b>Supplied Product</b>              | Antibody pair set content:<br>1. Capture antibody: rabbit MaxPab® affinity purified polyclonal anti-CA1 (100 ug)<br>2. Detection antibody: mouse monoclonal anti-CA1, IgG2b Kappa (20 ug)<br>*Reagents are sufficient for at least 1-2 x 96 well plates using recommended protocols. |
| <b>Storage Instruction</b>           | Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.   |

## Applications

- ELISA Pair (Recombinant protein)

[Protocol Download](#)

## Gene Info — CA1

**Entrez GeneID** [759](#)

**Gene Name** CA1

**Gene Alias** Car1

**Gene Description** carbonic anhydrase I

**Omim ID** [114800](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** 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. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this gene have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA\_sites have been described in literature. [provided by RefSeq]

**Other Designations** carbonic dehydratase

## Pathway

- [Nitrogen metabolism](#)

## Disease

- [Diabetic Retinopathy](#)