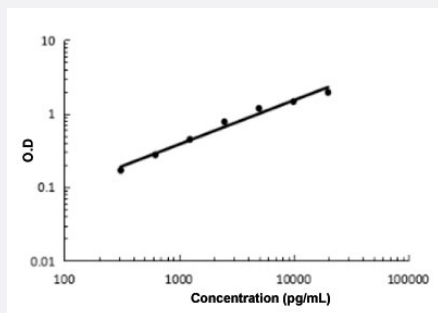


# CA1 (Human) ELISA Kit

Catalog # KA5773      Size 1 Kit

## Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

<b>Product Description</b>	CA1 (Human) ELISA Kit is a sandwich enzyme-linked immunosorbent assay for the quantitative measurement of human CA1.
<b>Suitable Sample</b>	Cell Culture Supernates, Plasma (Heparin, EDTA, Citrate), and Serum.
<b>Sample Volume</b>	100 $\mu$ L
<b>Label</b>	HRP-conjugated
<b>Detection Method</b>	Colorimetric
<b>Assay Type</b>	Quantitative
<b>Calibration Range</b>	312 to 20000 pg/mL
<b>Reactivity</b>	Human
<b>Regulatory Status</b>	For research use only (RUO)
<b>Quality Control Testing</b>	Standard curve The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.
<b>Storage Instruction</b>	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

## Applications

- [Quantification](#)

## Gene Info — CA1

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

**Protein Accession#** [P00915](#)

**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](#)