

# Product Information

## Recombinant Anti-Human CA2 Single Domain Antibody

Cat. No.: **NAB-L104**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Single Domain Antibody to human CA2.

### Antigen Description

Carbonic anhydrase II (gene name CA2), is one of fourteen forms of human  $\alpha$  carbonic anhydrases. Carbonic anhydrase catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Renal carbonic anhydrase allows the reabsorption of sodium ions in the proximal tubule.

### Specific Activity

Tested positive against native human antigen.

### Target

CA2

### Immunogen

The details of the immunogen for this antibody are not available.

### Source

llama

### Species Reactivity

Human

### Type

llama Single Domain Antibody

### Expression Host

E.coli

### Storage

4°C. For long term storage, aliquot and store at -20°C. Repeated thawing and freezing must be avoided.

## ANTIGEN GENE INFORMATION

### Gene Name

[CA2 carbonic anhydrase II \[ Homo sapiens \]](#)

### Official Symbol

CA2

### Synonyms

CA2; carbonic anhydrase II; carbonic anhydrase 2; CA II; CAII; Car2; CAC; carbonic anhydrase B; carbonic anhydrase C;

carbonic dehydratase; carbonate dehydratase II; CA-II;

**Gene ID**

[760](#)

**mRNA Refseq**

[NM\\_000067](#)

**Protein Refseq**

[NP\\_000058](#)

**MIM**

[611492](#)

**UniProt ID**

P00918

**Chromosome Location**

8q22

**Pathway**

Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Pancreatic secretion, organism-specific biosystem;

**Function**

carbonate dehydratase activity; lyase activity; metal ion binding; zinc ion binding;