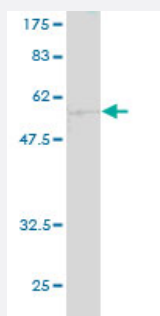


# CA1 monoclonal antibody (M03), clone 1E11

Catalog # H00000759-M03

Size 100 ug

## Applications



Western Blot detection against Immunogen (54.45 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a full length recombinant CA1.

### Immunogen

CA1 (AAH27890, 1 a.a. ~ 261 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

### Sequence

MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHSHFVNFEEDNDNRSVLKGGPFSDSYRLFQHFHWGSTNEHGSEHTVDGVKYSAELHVAHWNSAKYSSLAEEAASKADGLAVIGVLMKVGEANPKLQKVLDALQAIKTKGKRAPFTNFDPSLLPSSLDFTWTPGSLTHPPLYESVTWICKESISVSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASF

### Host

Mouse

### Reactivity

Human

### Interspecies Antigen Sequence

Mouse (78); Rat (81)

### Isotype

IgG1 Kappa

### Quality Control Testing

Antibody Reactive Against Recombinant Protein.  
Western Blot detection against Immunogen (54.45 KDa) .

### Storage Buffer

In 1x PBS, pH 7.4

## Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## Gene Info — CA1

**Entrez GeneID** [759](#)**GeneBank Accession#** [BC027890](#)**Protein Accession#** [AAH27890](#)**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](#)