

## CA1

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:10 - 1:100

**Calculated MW:**29kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human CA1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

CA1;Car1;Carbonate dehydratase I; carbonic anhydrase I; Carbonic anhydrase 1; CA I

**Background:**

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, Sep 2009]

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**Catalog #:**A1031

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**759

**Isotype:**IgG

**Swiss Prot:**P00915

**Purity:**Affinity purification

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