



## Rabbit Anti-Carbonic anhydrase 3 antibody

SL5914R

<b>Product Name:</b>	Carbonic anhydrase 3
<b>Chinese Name:</b>	碳酸酐酶3抗体
<b>Alias:</b>	CA III; CAIII; Car3; Carbonate dehydratase III; Carbonic anhydrase 3; Carbonic anhydrase3; Carbonic anhydrase-3; Carbonic anhydrase III muscle specific; EC 4.2.1.1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	30kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Carbonic anhydrase 3:21-120/260
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Carbonic anhydrase is a family of metalloenzymes (enzymes that contain one or more metal atoms as a functional component of the enzyme) that catalyze the rapid interconversion of carbon dioxide and water into carbonic acid and protons. It also converts bicarbonate in carbon dioxide and water. This reaction occurs spontaneously in aqueous solution, but does so slowly. Carbonic anhydrase can greatly increase the

rate of the reaction, with typical catalytic rates of the different forms of this enzyme ranging between 104 and 106 reactions per second. The active site of most carbonic anhydrases contains a zinc ion.

**Subcellular Location:**

Cytoplasm.

**Tissue Specificity:**

Muscle specific.

**Similarity:**

Belongs to the alpha-carbonic anhydrase family.

**SWISS:**

P07451

**Gene ID:**

761

**Database links:**

[Entrez Gene: 761](#) Human

[Entrez Gene: 12350](#) Mouse

[Entrez Gene: 54232](#) Rat

[Omim: 114750](#) Human

[SwissProt: P07451](#) Human

[SwissProt: P16015](#) Mouse

[SwissProt: P14141](#) Rat

[Unigene: 82129](#) Human

[Unigene: 300](#) Mouse

[Unigene: 1647](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.