



Rabbit Anti-CA I antibody

SL1592R

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| Product Name: | CA I |
| Chinese Name: | 碳酸酐酶1抗体 |
| Alias: | Carbonic anhydrase I; Carbonic Anhydrase-I; Carbonic Anhydrase 1; Carbonic anhydrase 1; Carbonic anhydrase-1; JW0122; CA 1; CA1; CA I; CA-1; CAI; CAN; Car 1; Car1; Carbonate dehydratase I; Carbonic anhydrase 1; Carbonic anhydrase B; Carbonic dehydratase; ECK0125; yadF; CAH1 MOUSE. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Cow,Rabbit,Sheep, |
| Applications: | 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. |
| Molecular weight: | 29kDa |
| Cellular localization: | The cell membraneSecretory protein |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human CA I:161-261/261 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | 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. |
| PubMed: | PubMed |
| Product Detail: | 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]

Function:

Reversible hydration of carbon dioxide.

Subcellular Location:

Cytoplasm.

Similarity:

Belongs to the alpha-carbonic anhydrase family.

SWISS:

P00915

Gene ID:

759

Database links:

[Entrez Gene: 759](#)Human

[Entrez Gene: 12346](#)Mouse

[Entrez Gene: 310218](#)Rat

[Omim: 114800](#)Human

[SwissProt: P00915](#)Human

[SwissProt: P13634](#)Mouse

[SwissProt: B0BNN3](#)Rat

[Unigene: 23118](#)Human

[Unigene: 273195](#)Mouse

[Unigene: 6854](#)Rat

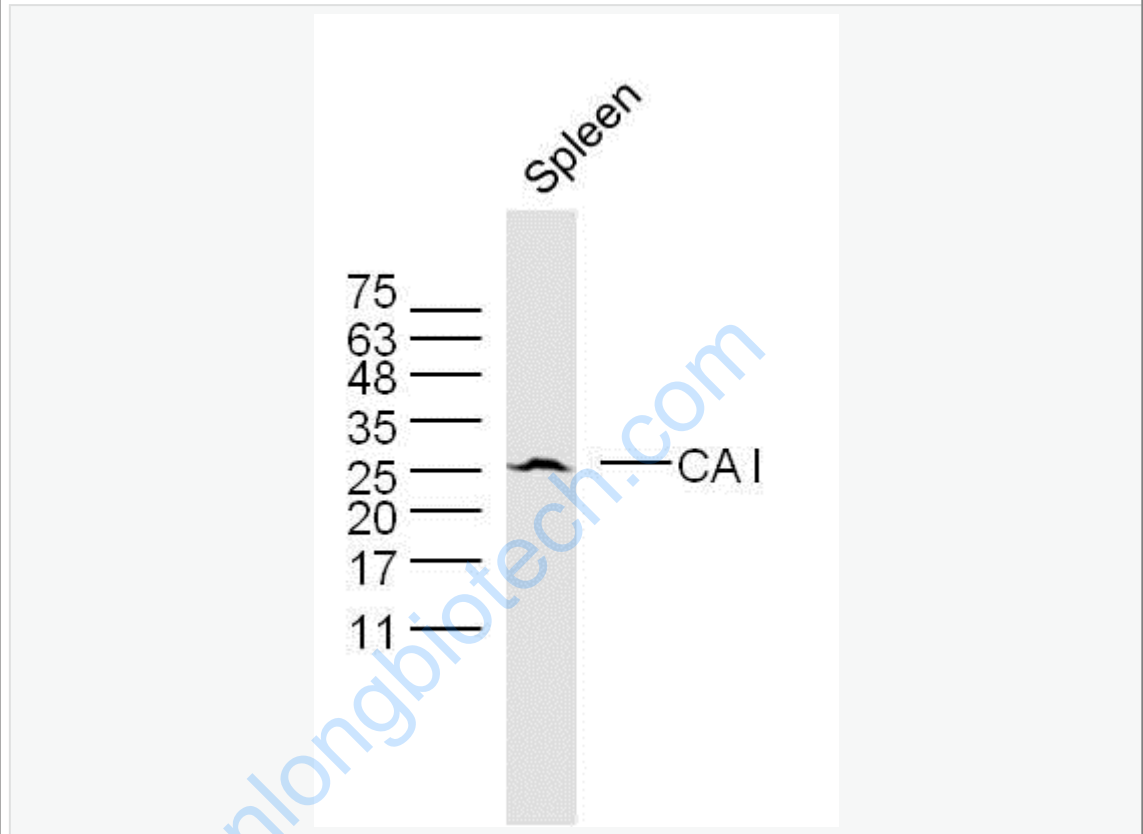
Important Note:

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

CA1(Carbonic

anhydrase1)是红细胞的主要蛋白质成分之一,是一种重要的锌酶,对血液及组织起到维持酸碱平衡的作用,协助体内组织排除二氧化碳,碳酸酐酶I参与呼吸、钙化、酸碱平衡、骨吸收和各种体液形成的生理过程。

Picture:



Sample:

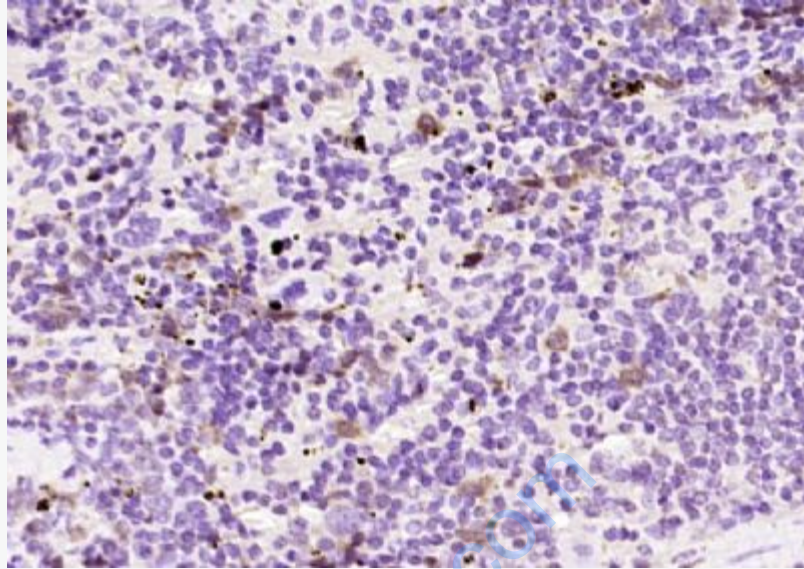
Spleen (Mouse) Lysate at 40 ug

Primary: Anti- CA I (SL1592R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 29 kD



Paraformaldehyde-fixed, paraffin embedded (mouse spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CA I) Polyclonal Antibody, Unconjugated (SL1592R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.