

Anti-CA1 Picoband Antibody
Catalog # ABO12216**Specification**

Anti-CA1 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P00915
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Carbonic anhydrase 1(CA1) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CA1 Picoband Antibody - Additional Information

Gene ID 759

Other Names

Carbonic anhydrase 1, 4.2.1.1, Carbonate dehydratase I, Carbonic anhydrase B, CAB, Carbonic anhydrase I, CA-I, CA1

Calculated MW

28870 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cytoplasm.

Protein Name

Carbonic anhydrase 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human CA1 recombinant protein (Position: D9-F261). Human CA1 shares 78.5% and 81% amino acid (aa) sequence identity with mouse and rat CA1, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-CA1 Picoband Antibody - Protein Information**Name** CA1**Function**

Catalyzes the reversible hydration of carbon dioxide (PubMed: [10550681](http://www.uniprot.org/citations/10550681), PubMed: [16506782](http://www.uniprot.org/citations/16506782), PubMed: [16686544](http://www.uniprot.org/citations/16686544), PubMed: [16807956](http://www.uniprot.org/citations/16807956), PubMed: [17127057](http://www.uniprot.org/citations/17127057), PubMed: [17314045](http://www.uniprot.org/citations/17314045), PubMed: [17407288](http://www.uniprot.org/citations/17407288), PubMed: [18618712](http://www.uniprot.org/citations/18618712), PubMed: [19186056](http://www.uniprot.org/citations/19186056), PubMed: [19206230](http://www.uniprot.org/citations/19206230)). Can hydrate cyanamide to urea (PubMed: [10550681](http://www.uniprot.org/citations/10550681)).

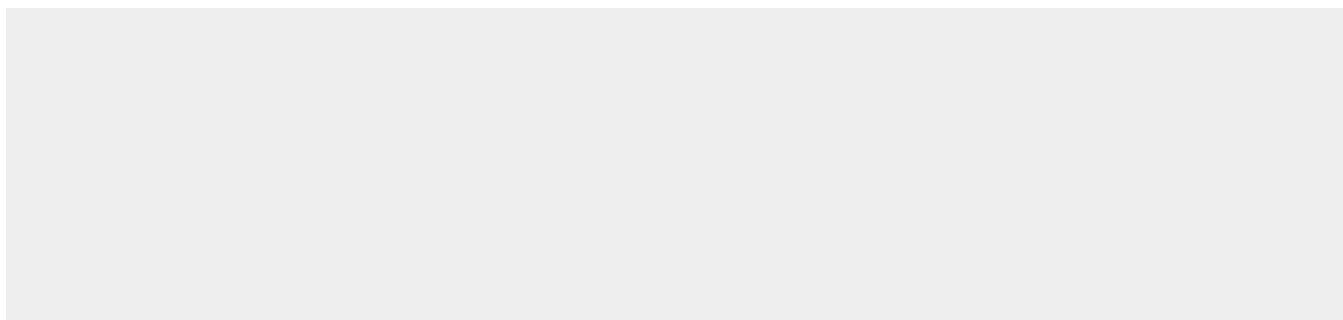
Cellular Location

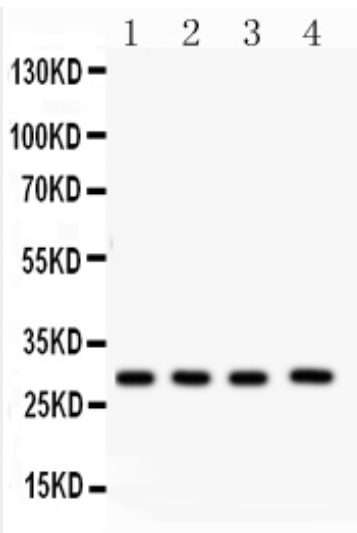
Cytoplasm {ECO:0000250|UniProtKB:B0BNN3}.

Anti-CA1 Picoband Antibody - Protocols

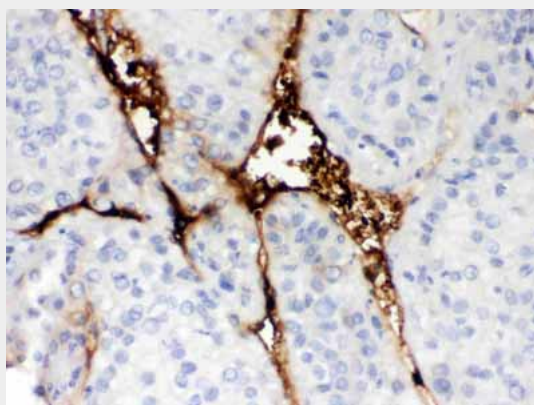
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CA1 Picoband Antibody - Images



Anti-CA1 Picoband antibody, ABO12216, Western blotting All lanes: Anti CA1 (ABO12216) at 0.5ug/ml
Lane 1: Rat Spleen Tissue Lysate at 50ug
Lane 2: Rat Liver Tissue Lysate at 50ug
Lane 3: Rat Kidney Tissue Lysate at 50ug
Lane 4: Human Placenta Tissue Lysate at 50ug
Predicted bind size: 29KD
Observed bind size: 29KD



Anti-CA1 Picoband antibody, ABO12216, IHC(P) IHC(P): Human Liver Cancer Tissue

Anti-CA1 Picoband Antibody - Background

Carbonic anhydrase 1 is an enzyme that in humans is encoded by the CA1 gene. It is a member of the Carbonic anhydrase. The CA1 gene is mapped to 8q22. CAI has got about 260 amino acids. This protein is highly expressed in erythrocytes. As catalysts of the reversible hydration of carbon dioxide, CAI participates in a variety of biologic processes like respiration, calcification, acid-base balance etc.