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Anti-Carbonic Anhydrase I Antibody

Catalog # ABO10747

Product Information

Application	WB
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 in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Rat
Subcellular Localization	Cytoplasm.
Source	Eukaryota
Protein Name	Carbonic anhydrase 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Carbonic Anhydrase I(51-68aa SYNPATAKEIINVGHSFH), different from the mouse sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, 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.

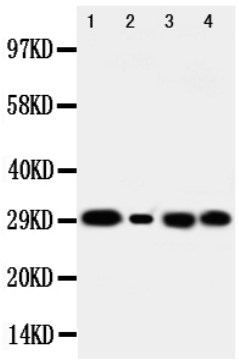
Protein Information

Name	CA1
Function	Catalyzes the reversible hydration of carbon dioxide (PubMed: 10550681, PubMed:16506782, PubMed:16686544, PubMed:16807956, PubMed:17127057, PubMed:17314045, PubMed:17407288, PubMed:19186056, PubMed:19206230, PubMed:4994926). Can hydrate cyanamide to urea (PubMed:10550681).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:B0BNN3}.

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 participate in a variety of biologic processes like respiration, calcification, acid-base balance etc.

Images



Anti-Carbonic Anhydrase I antibody, ABO10747, Western blottingLane 1: Rat Spleen Tissue LysateLane 2: Rat Testis Tissue LysateLane 3: Rat Kidney Tissue LysateLane 4: Rat Lung Tissue Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.