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CA1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7352c

Specification

CA1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P00915

CA1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 759

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7352c was selected from the Center region of human CA1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CA1 Antibody (Center) Blocking Peptide - Protein Information

Name CA1

Function
Catalyzes the reversible hydration of carbon dioxide (PubMed:10550681, PubMed:18618712, PubMed:16807956, PubMed:16686544, PubMed:17127057, PubMed:19186056, PubMed:19206230, PubMed:16506782, PubMed:17314045, PubMed:17407288). Can hydrate

cyanamide to urea (PubMed:10550681).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:B0BNN3}.

CA1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

CA1 Antibody (Center) Blocking Peptide - Images

CA1 Antibody (Center) Blocking Peptide - 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 is a cytosolic protein which is found at the highest level in erythrocytes.

CA1 Antibody (Center) Blocking Peptide - References

Gambhir,K.K., Biochem. Genet. 45 (5-6), 431-439 (2007)Temperini,C., Bioorg. Med. Chem. Lett. 17 (8), 2210-2215 (2007)