

CA1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12645a**Specification**

CA1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P00915](#)**CA1 Antibody (N-term) 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

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 (N-term) 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 (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CA1 Antibody (N-term) Blocking peptide - Images

CA1 Antibody (N-term) 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 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.

CA1 Antibody (N-term) Blocking peptide - References

Abhary, S., et al. Mol. Vis. 15, 1179-1184 (2009) ; Gambhir, K.K., et al. Biochem. Genet. 45 (5-6), 431-439 (2007) ; Temperini, C., et al. Bioorg. Med. Chem. Lett. 17(8):2210-2215 (2007) ; Temperini, C., et al. Bioorg. Med. Chem. Lett. 16(19):5152-5156 (2006) ; Dawson, S.J., et al. J. Infect. 24(3):317-320 (1992)