

**CA7 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7479c****Specification**

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**CA7 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [P43166](#)  
Other Accession [P22748](#)

**CA7 Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 766

**Other Names**

Carbonic anhydrase 7, Carbonate dehydratase VII, Carbonic anhydrase VII, CA-VII, CA7

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7479c](/products/AP7479c) was selected from the Center region of human CA7. 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.

**CA7 Antibody (Center) Blocking Peptide - Protein Information**

**Name** CA7

**Function**

Reversible hydration of carbon dioxide.

**Cellular Location**

Cytoplasm.

**CA7 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **CA7 Antibody (Center) Blocking Peptide - Images**

## **CA7 Antibody (Center) Blocking Peptide - Background**

CA4 is 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. This protein is a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, the protein may have a role in inherited renal abnormalities of bicarbonate transport.

## **CA7 Antibody (Center) Blocking Peptide - References**

Okuyama T., Sato S. Proc. Natl. Acad. Sci. U.S.A. 89:1315-1319(1992) Okuyama T. Genomics 16:678-684(1993) Yang Z., Alvarez B.V. Hum. Mol. Genet. 14:255-265(2005) Okuyama T. Arch. Biochem. Biophys. 320:315-322(1995)