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# CA3 Antibody (N-term) Blocking Peptide
**Synthetic peptide**
**Catalog # BP7633a**

## Specification

### CA3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P07451

### CA3 Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID** 761

**Other Names**
Carbonic anhydrase 3, Carbonate dehydratase III, Carbonic anhydrase III, CA-III, CA3

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/products/AP7633a>AP7633a</a> was selected from the N-term region of human CA3. 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.

### CA3 Antibody (N-term) Blocking Peptide - Protein Information

**Name** CA3 {ECO:0000303|PubMed:9651514, ECO:0000312|HGNC:HGNC:1374}

**Function**
Reversible hydration of carbon dioxide.

**Cellular Location**
Cytoplasm.

**Tissue Location**
Muscle specific.

### CA3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

**CA3 Antibody (N-term) Blocking Peptide - Images**

**CA3 Antibody (N-term) Blocking Peptide - Background**

Carbonic anhydrase III (CAIII) is a member of carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The expression of the CA3 gene is strictly tissue specific and present at high levels in skeletal muscle and much lower levels in cardiac and smooth muscle. A proportion of carriers of Duchenne muscle dystrophy have a higher CA3 level than normal.

**CA3 Antibody (N-term) Blocking Peptide - References**

Du,A.L., Autoimmunity 42 (3), 209-215 (2009)Dai,H.Y., Mol. Carcinog. 47 (12), 956-963 (2008)Gailly,P., Kidney Int. 74 (1), 52-61 (2008)