

**CA3 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7633a**

**Specification**

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**CA3 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P07451</a>
Other Accession	<a href="#">P14141</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29557
Antigen Region	17-46

**CA3 Antibody (N-term) - Additional Information**

**Gene ID** 761

**Other Names**

Carbonic anhydrase 3, Carbonate dehydratase III, Carbonic anhydrase III, CA-III, CA3

**Target/Specificity**

This CA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-46 amino acids from the N-terminal region of human CA3.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CA3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CA3 Antibody (N-term) - Protein Information**

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

**Function** Reversible hydration of carbon dioxide.

**Cellular Location**

Cytoplasm.

**Tissue Location**

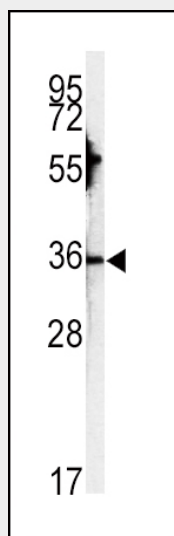
Muscle specific.

**CA3 Antibody (N-term) - Protocols**

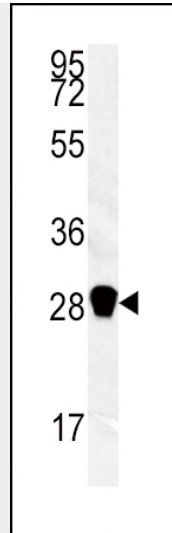
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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



Western blot analysis of CA3 antibody (N-term)(Cat.#AP7633a) in HepG2 cell line lysates (35ug/lane). CA3 (arrow) was detected using the purified Pab.



Western blot analysis of CA3 antibody (N-term)(Cat.#AP7633a) in mouse kidney tissue lysates (35ug/lane). CA3 (arrow) was detected using the purified Pab.

### **CA3 Antibody (N-term) - 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) - 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)

### **CA3 Antibody (N-term) - Citations**

- [Mitochondrial proteomic profiling reveals increased carbonic anhydrase II in aging and neurodegeneration.](#)