

#### **CA3 Antibody (Center)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7633c

## **Specification**

## **CA3 Antibody (Center) - Product Information**

Application IHC-P, WB,E Primary Accession P07451

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 29557
Antigen Region 146-177

## CA3 Antibody (Center) - 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 146-177 amino acids from the Central region of human CA3.

#### **Dilution**

IHC-P~~1:10~50 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.

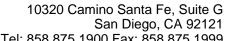
## **Precautions**

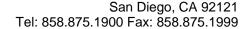
CA3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## **CA3 Antibody (Center) - Protein Information**

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

Function Reversible hydration of carbon dioxide.







**Cellular Location** Cytoplasm.

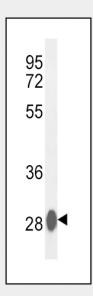
**Tissue Location** Muscle specific.

# **CA3 Antibody (Center) - Protocols**

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

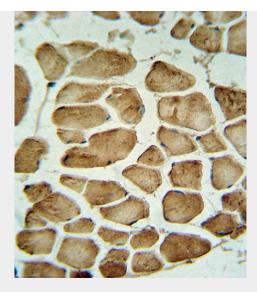
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# CA3 Antibody (Center) - Images



Western blot analysis of CA3 Antibody (Center) (Cat. #AP7633c) in mouse liver tissue lysates (35ug/lane). CA3 (arrow) was detected using the purified Pab.





CA3 Antibody (Center) (Cat. #AP7633c) IHC analysis in formalin fixed and paraffin embedded skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CA3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

## CA3 Antibody (Center) - 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 (Center) - 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)