10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CA3 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7633c

Specification

CA3 Antibody (Center) - Product Information

Application	**WB, IHC-P,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
WB~~1:1000
IHC-P~~1:10~50

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.

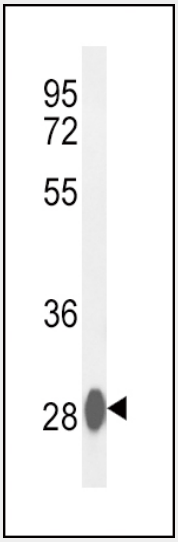
Tissue Location
Muscle specific.

CA3 Antibody (Center) - Protocols

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

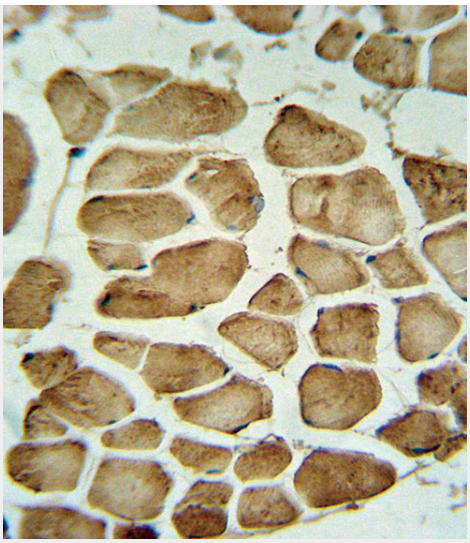
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

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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)