

Anti-CA3 Antibody
Catalog # ABO10758**Specification**

Anti-CA3 Antibody - Product Information

Application	WB, IHC
Primary Accession	P07451
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Carbonic anhydrase 3(CA3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CA3 Antibody - Additional Information

Gene ID 761

Other Names

Carbonic anhydrase 3, 4.2.1.1, Carbonate dehydratase III, Carbonic anhydrase III, CA-III, CA3

Calculated MW

29557 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cytoplasm.

Tissue Specificity

Muscle specific.

Protein Name

Carbonic anhydrase 3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human CA3 (2-20aa AKEWGYASHNGPDHWHELF), different from the related mouse and rat sequences by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-CA3 Antibody - Protein Information

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

Function

Reversible hydration of carbon dioxide.

Cellular Location

Cytoplasm.

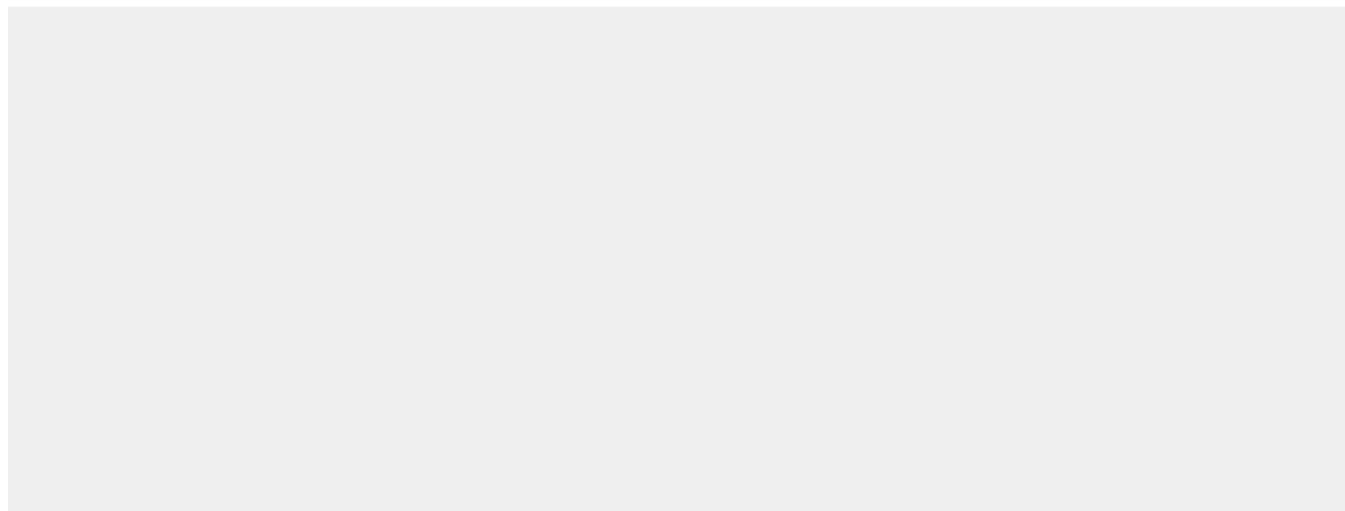
Tissue Location

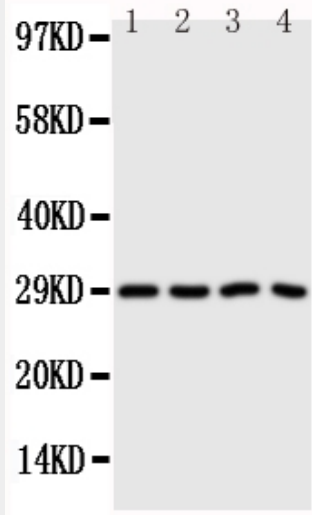
Muscle specific.

Anti-CA3 Antibody - Protocols

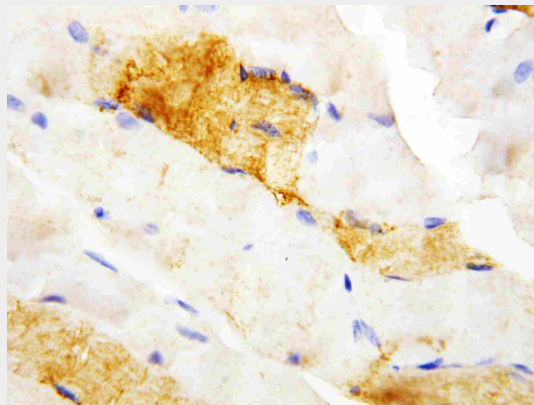
Provided below are standard protocols that you may find useful for product applications.

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

Anti-CA3 Antibody - Images



Anti-CA3 antibody, ABO10758, Western blotting
Lane 1: SMMC Cell Lysate
Lane 2: HELA Cell Lysate
Lane 3: SW620 Cell Lysate
Lane 4: SCG Cell Lysate



Anti-CA3 antibody, ABO10758, IHC(P)
IHC(P): Rat Skeletal Muscle Tissue

Anti-CA3 Antibody - Background

Carbonic anhydrase III(CA3) is an enzyme that in humans is encoded by the CA3 gene. CA3 is a member of a multigene family(at least six separate genes are known) that encode carbonic anhydrase isozymes. The gene spans 10.3 kb and contains seven exons and six introns. Using a cDNA clone of the CA3 gene in the study of human-rodent hybrids, the gene was mapped to chromosome 8 which carries a cluster of CA genes. CA3 is found in high concentration in muscle. CA3 is used in conjunction with creatine kinase detection of the carrier state for Duchenne muscular dystrophy.