

Anti-CA3 Antibody

Catalog # ABO10758

Product Information

Application	WB, IHC-P
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.

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
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.
Source	Eukaryota
Protein Name	Carbonic anhydrase 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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 r ° Constitution, 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.

Protein Information

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

Function Reversible hydration of carbon dioxide.

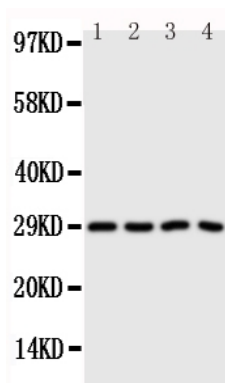
Cellular Location Cytoplasm.

Tissue Location Muscle specific.

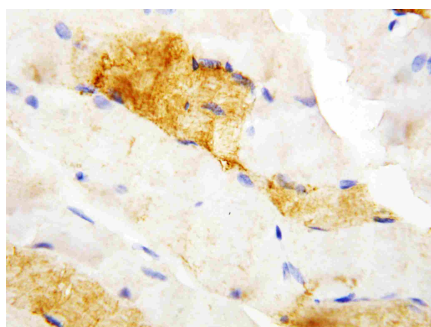
Background

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.