

Anti-Carbonic Anhydrase III/CA3 Antibody

Catalog Number: PA1439

About CA3

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.

Overview

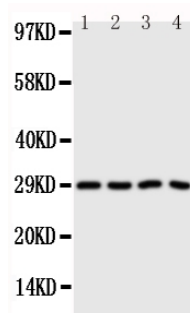
Product Name	Anti-Carbonic Anhydrase III/CA3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Carbonic Anhydrase III/CA3 Antibody catalog # PA1439. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P07451

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CA3, different from the related mouse and rat sequences by two amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

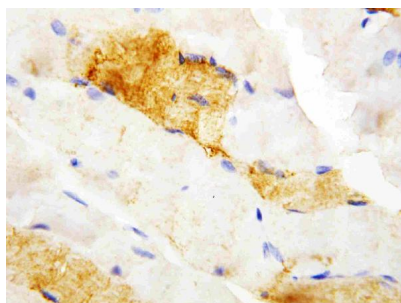
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p>

Anti-Carbonic Anhydrase III/CA3 Antibody (PA1439) Images



Anti-CA3 antibody, PA1439, 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, PA1439, IHC(P)
IHC(P): Rat Skeletal Muscle Tissue

1 Publications Citing This Product

1. PubMed ID: 21956205, Lan F, Yue X, Han L, Shi Z, Yang Y, Pu P, Yao Z, Kang C. Int J Oncol. 2012 Feb;40(2):519-26. Doi: 10.3892/Ijo.2011.1215. Epub 2011 Sep 28. Genome-Wide Identification Of Tcf7L2/Tcf4 Target Mirnas Reveals A Role For Mir-21 In Wnt-Driven Epithelial C...

Visit bosterbio.com/anti-ca3-antibody-pa1439-boster.html to see all 1 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Carbonic Anhydrase III/CA3 Antibody