

Rabbit CA3 Polyclonal Antibody | anti-CA3 antibody

Anti-CA3 Antibody

CATALOG # AAA46826	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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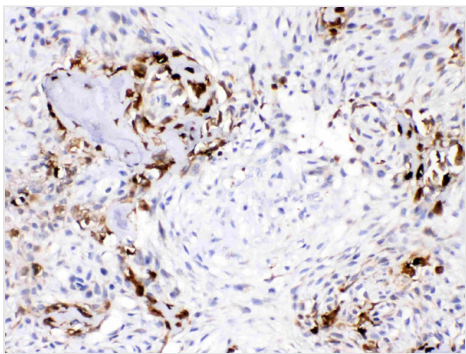
PRODUCT SYNONYMS

CA3; Polyclonal Antibody; Anti-CA3 Antibody; CAH3; CAIII; CA-III; Carbonic Anhydrase III; P07451; Carbonic anhydrase 3; carbonic anhydrase III; muscle specific; anti-CA3 antibody

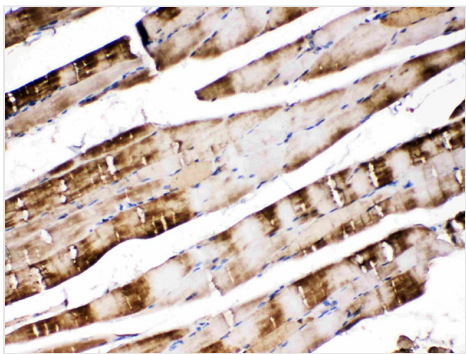
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	260
Applicable Applications for anti-CA3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human CA3 recombinant protein (Position: D14-E235). Human CA3 shares 92.3% and 91.4% amino acid (aa) sequence identity with mouse and rat CA3, respectively.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

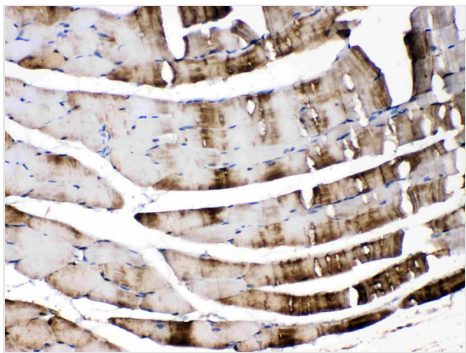
IMAGES



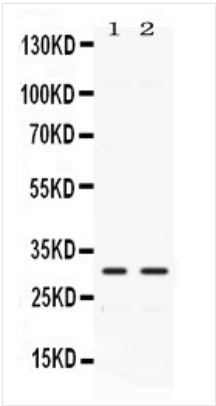
IHC (Immunohistochemistry)
CA3 was detected in paraffin-embedded sections of human osteosarcoma tissues using rabbit anti- CA3 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemisry)
CA3 was detected in paraffin-embedded sections of rat skeletal muscle tissues using rabbit anti- CA3 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohiostchemistry)
CA3 was detected in paraffin-embedded sections of mouse skeletal muscle tissues using rabbit anti- CA3 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of CA3 expression in rat cardiac muscle extract (lane 1) and mouse cardiac muscle extract (lane 2). CA3 at 29kD was detected using rabbit anti- CA3 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-CA3 antibody	Rabbit IgG polyclonal antibody for Carbonic anhydrase 3(CA3) detection. 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. 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.
References	1. Edwards, Y. H., Lloyd, J. C., Parkar, M., Povey, S.The gene for human muscle specific carbonic anhydrase (CAIII) is assigned to chromosome 8.Ann. Hum. Genet. 50: 41-47, 1986. 2. Heath, R., Carter, N. D., Jeffery, S., Edwards, R. J., Watts, D. C., Watts, R. L.Evaluation of carrier detection of Duchenne muscular dystrophy using carbonic anhydrase III and creatine kinase.Am. J. Med. Genet. 21: 291-296, 1985. 3. Wade, R., Gunning, P., Eddy, R., Shows, T., Kedes, L.Nucleotide sequence, tissue-specific expression, and chromosome location of human carbonic anhydrase III: the human CAIII gene is located on the same chromosome as the closely linked CAI and CAII genes.Proc. Nat. Acad. Sci. 83: 9571-9575, 1986.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885099
NCBI GeneID	761

NCBI Accession #	NP_005172.1
NCBI GenBank Nucleotide #	NM_005181.3
UniProt Accession #	P07451 ; O60842 ; B2R867 ; B3KUC8
Molecular Weight	29,557 Da
NCBI Official Full Name	carbonic anhydrase 3
NCBI Official Synonym Full Names	carbonic anhydrase 3
NCBI Official Symbol	CA3
NCBI Official Synonym Symbols	Car3; CAIII
NCBI Protein Information	carbonic anhydrase 3
UniProt Protein Name	Carbonic anhydrase 3
UniProt Gene Name	CA3
UniProt Synonym Gene Names	CA-III

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ca3-antibody-immunohistochemistry-western-blot-elisa/46826>