


Product datasheet

Anti-Carbonic Anhydrase 3/CA3 antibody ab196835

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Overview

Product name	Anti-Carbonic Anhydrase 3/CA3 antibody
Description	Rabbit polyclonal to Carbonic Anhydrase 3/CA3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Horse, Cow, Pig 
Immunogen	Recombinant full length protein corresponding to Human Carbonic Anhydrase 3/CA3 aa 1 to the C-terminus. Database link: P07451 Run BLAST with Run BLAST with
Positive control	Skeletal Muscle (Mouse) Whole Cell Lysate (ab3869) can be used as a positive control in WB. Mouse kidney, lung and skeletal muscle extracts; Rat testis tissue; HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride PBS without Mg ²⁺ and Ca ²⁺ .
Purity	Immunogen affinity purified

Clonality Polyclonal
Isotype IgG

Applications

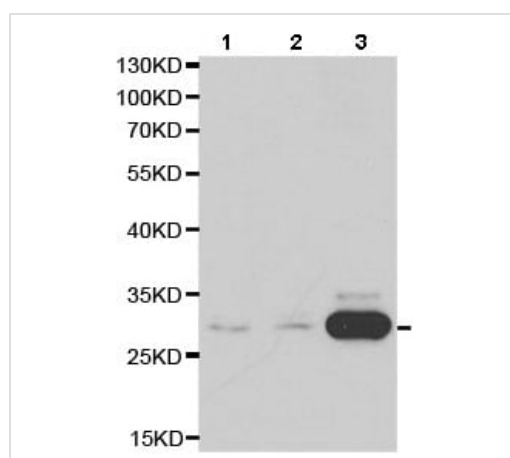
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab196835 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
WB		1/500 - 1/2000. Predicted molecular weight: 30 kDa.
ICC/IF		1/50 - 1/200.

Target

Function Reversible hydration of carbon dioxide.
Tissue specificity Muscle specific.
Sequence similarities Belongs to the alpha-carbonic anhydrase family.
Developmental stage At 6 weeks gestation, transcripts accumulate at low levels in the somites and at high levels throughout the notochord. As gestation continues, CA3 becomes abundant in all developing muscle masses and continues at high to moderate levels in the notochord.
Post-translational modifications S-glutathionylated in hepatocytes under oxidative stress.
Cellular localization Cytoplasm.

Images



Western blot - Anti-Carbonic Anhydrase 3/CA3 antibody (ab196835)

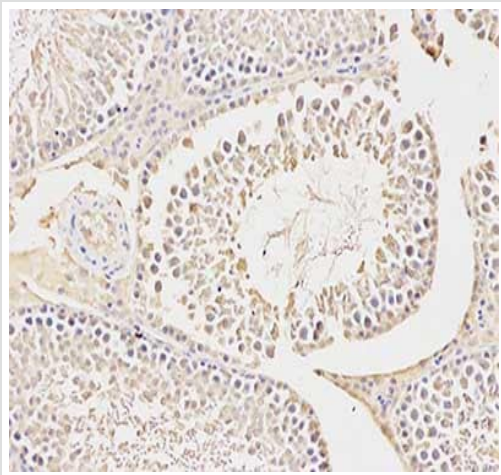
All lanes : Anti-Carbonic Anhydrase 3/CA3 antibody (ab196835) at 1/500 dilution

Lane 1 : Mouse kidney extract

Lane 2 : Mouse lung extract

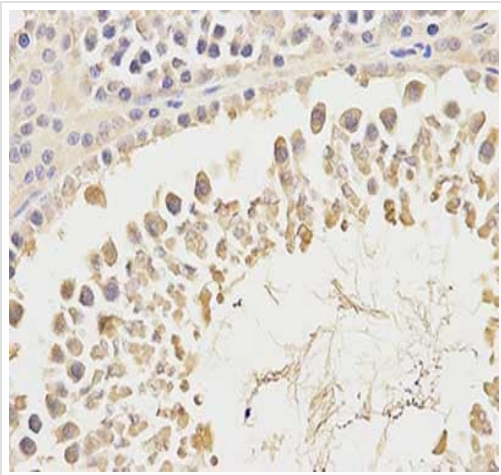
Lane 3 : Mouse skeletal muscle extract

Predicted band size: 30 kDa



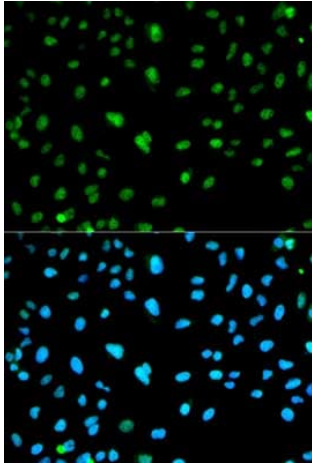
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Carbonic Anhydrase 3/CA3 antibody (ab196835)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling Carbonic Anhydrase 3/CA3 with ab196835 at 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Carbonic Anhydrase 3/CA3 antibody (ab196835)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling Carbonic Anhydrase 3/CA3 with ab196835 at 1/200 dilution.



Immunofluorescent analysis of HeLa cells labeling Carbonic Anhydrase III/CA3 with ab196835 at 1/50 dilution. Blue: DAPI for nuclear staining.

Immunocytochemistry/ Immunofluorescence - Anti-Carbonic Anhydrase 3/CA3 antibody (ab196835)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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