



## Product datasheet

# Anti-Carbonic Anhydrase 5A/CA5A antibody ab231676

3 Images

### Overview

<b>Product name</b>	Anti-Carbonic Anhydrase 5A/CA5A antibody
<b>Description</b>	Rabbit polyclonal to Carbonic Anhydrase 5A/CA5A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Rat
<b>Immunogen</b>	Recombinant fragment (His-tag) corresponding to Rat Carbonic Anhydrase 5A/CA5A aa 1-250. Expressed in E.coli. N-terminal tag. Database link: <a href="#">P43165</a>
	 <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Recombinant rat Carbonic Anhydrase 5A/CA5A protein; rat serum; rat heart, lung and spleen lysates. IHC-P: Rat liver tissue.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab231676 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
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 35 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

## Target

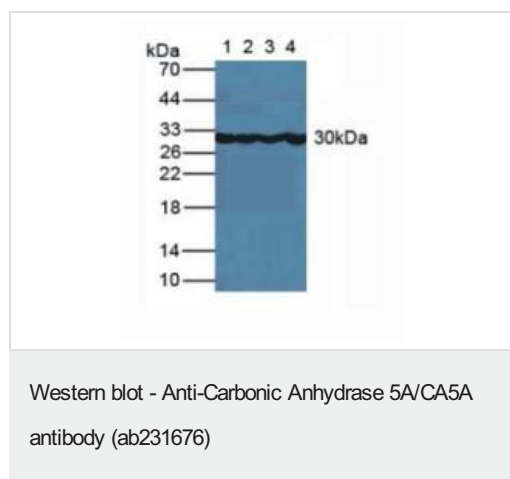
### Relevance

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA5A is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2.

### Cellular localization

Mitochondrial

## Images



**All lanes :** Anti-Carbonic Anhydrase 5A/CA5A antibody (ab231676) at 1.5 µg/ml

**Lane 1 :** Rat serum

**Lane 2 :** Rat heart lysate

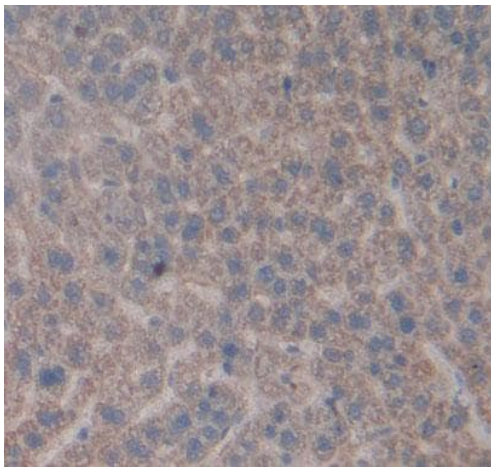
**Lane 3 :** Rat lung lysate

**Lane 4 :** Rat spleen lysate

### Secondary

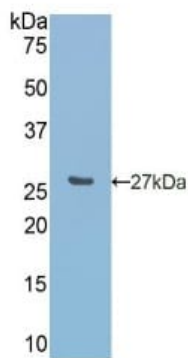
**All lanes :** HRP-Linked Guinea pig anti-Rabbit at 1/1000 dilution

**Predicted band size:** 35 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Carbonic Anhydrase 5A/CA5A antibody (ab231676)

Formalin-fixed, paraffin-embedded rat liver tissue stained for Carbonic Anhydrase 5A/CA5A using ab231676 at 20 µg/ml in immunohistochemical analysis. DAB staining.



Western blot - Anti-Carbonic Anhydrase 5A/CA5A antibody (ab231676)

Anti-Carbonic Anhydrase 5A/CA5A antibody (ab231676) at 1.5 µg/ml + Recombinant rat Carbonic Anhydrase 5A/CA5A protein

#### Secondary

HRP-Linked Guinea pig anti-Rabbit

**Predicted band size:** 35 kDa

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

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