

# Anti-Carbonic Anhydrase 9/CA9 antibody ab184006

★★★★★ [1 Abreviews](#) [12 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-Carbonic Anhydrase 9/CA9 antibody
<b>Description</b>	Rabbit polyclonal to Carbonic Anhydrase 9/CA9
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human Carbonic Anhydrase 9/CA9 aa 1-168. The exact sequence is proprietary. Database link: <a href="#">Q16790</a>
<b>Positive control</b>	HepG2 cell lysate, treated with 200µM CoCl <sub>2</sub> for 24hr; Human cervical carcinoma tissue; CoCl <sub>2</sub> -treated A431 cells.
<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: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab184006 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		1/100 - 1/1000.
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 50 kDa.
ICC/IF		1/100 - 1/1000.

## Target

### Function

Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia.

### Tissue specificity

Expressed primarily in carcinoma cells lines. Expression is restricted to very few normal tissues and the most abundant expression is found in the epithelial cells of gastric mucosa.

### Sequence similarities

Belongs to the alpha-carbonic anhydrase family.  
Contains 1 alpha-carbonic anhydrase domain.

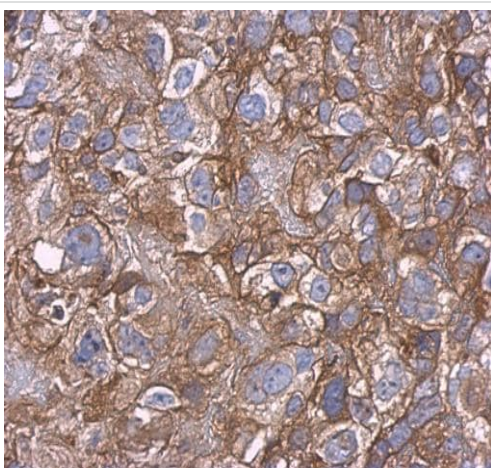
### Post-translational modifications

Asn-346 bears high-mannose type glycan structures.

### Cellular localization

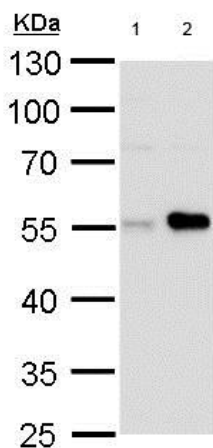
Nucleus. Nucleus, nucleolus. Cell membrane. Cell projection, microvillus membrane. Found on the surface microvilli and in the nucleus, particularly in nucleolus.

## Images



Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma tissue labeling Carbonic Anhydrase 9/CA9 with ab184006 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Carbonic Anhydrase 9/CA9 antibody (ab184006)



Western blot - Anti-Carbonic Anhydrase 9/CA9 antibody (ab184006)

**All lanes :** Anti-Carbonic Anhydrase 9/CA9 antibody (ab184006) at 1/1000 dilution

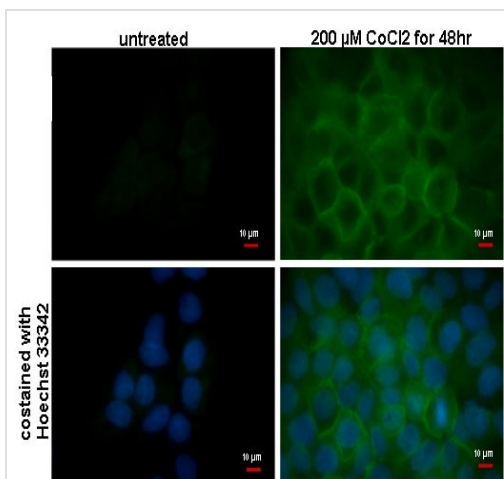
**Lane 1 :** HepG2 whole cell lysate, untreated

**Lane 2 :** HepG2 whole cell lysate, treated with 200  $\mu$ M CoCl<sub>2</sub> for 24 hr

Lysates/proteins at 30  $\mu$ g per lane.

**Predicted band size:** 50 kDa

10% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-Carbonic Anhydrase 9/CA9 antibody (ab184006)

Immunofluorescent analysis of A431 cells labeling Carbonic Anhydrase 9/CA9 with ab184006 at 1/500 dilution. A431 cells were fixed in ice-cold MeOH for 5 min. Cells were treated with 200  $\mu$ M CoCl<sub>2</sub> (right) or untreated (left)

Green: Carbonic Anhydrase 9/CA9 protein showing membrane staining.

Blue: Hoechst 33342.

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

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