



# Anti-Carbonic anhydrase 2/CA2 antibody ab231153

5 Images

## Overview

<b>Product name</b>	Anti-Carbonic anhydrase 2/CA2 antibody
<b>Description</b>	Rabbit polyclonal to Carbonic anhydrase 2/CA2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Chicken, Human
<b>Immunogen</b>	Recombinant full length protein (His-tag) corresponding to Chicken Carbonic anhydrase 2/CA2 aa 1 to the C-terminus. Expressed in E. coli. Database link: <a href="#">P07630</a>
	 <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Recombinant chicken Carbonic anhydrase 2/CA2 protein. HEK-293T cell lysate; Chicken testis and eye lysate; Chicken serum.
<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 ab231153 in the following tested applications.

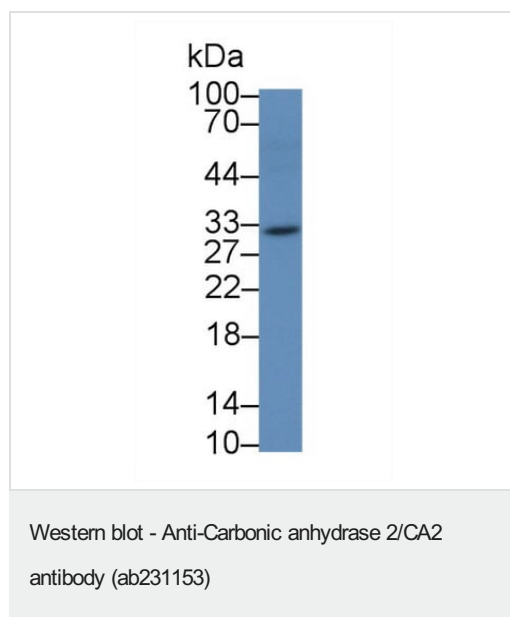
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 29 kDa.

## Target

Function	Essential for bone resorption and osteoclast differentiation (By similarity). Reversible hydration of carbon dioxide. Can hydrates cyanamide to urea. Involved in the regulation of fluid secretion into the anterior chamber of the eye.
Involvement in disease	Defects in CA2 are the cause of osteopetrosis autosomal recessive type 3 (OPTB3) [MIM:259730]; also known as osteopetrosis with renal tubular acidosis, carbonic anhydrase II deficiency syndrome, Guibaud-Vainsel syndrome or marble brain disease. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of non-functional osteoclasts. OPTB3 is associated with renal tubular acidosis, cerebral calcification (marble brain disease) and in some cases with mental retardation.
Sequence similarities	Belongs to the alpha-carbonic anhydrase family.
Cellular localization	Cytoplasm.

## Images



Anti-Carbonic anhydrase 2/CA2 antibody (ab231153) at 2 µg/ml +  
Chicken serum

**Predicted band size:** 29 kDa



Western blot - Anti-Carbonic anhydrase 2/CA2 antibody (ab231153)

Anti-Carbonic anhydrase 2/CA2 antibody (ab231153) at 2 µg/ml + HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

**Predicted band size:** 29 kDa



Western blot - Anti-Carbonic anhydrase 2/CA2 antibody (ab231153)

Anti-Carbonic anhydrase 2/CA2 antibody (ab231153) at 1 µg/ml + Chicken eye lysate

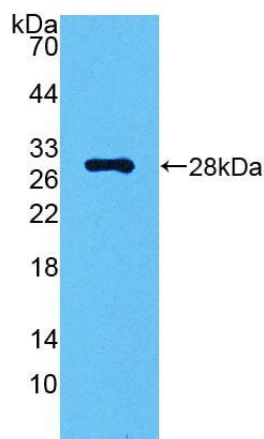
**Predicted band size:** 29 kDa



Western blot - Anti-Carbonic anhydrase 2/CA2 antibody (ab231153)

Anti-Carbonic anhydrase 2/CA2 antibody (ab231153) at 2 µg/ml + Chicken testis lysate

**Predicted band size:** 29 kDa



Western blot - Anti-Carbonic anhydrase 2/CA2 antibody (ab231153)

Anti-Carbonic anhydrase 2/CA2 antibody (ab231153) at 2 µg/ml +  
Recombinant chicken Carbonic anhydrase 2 protein

**Predicted band size:** 29 kDa

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

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