



Anti-Carbonic Anhydrase 9/CA9 antibody ab15086

★★★★☆ [4 Abreviews](#) [134 References](#) [5 Images](#)

Overview

Product name	Anti-Carbonic Anhydrase 9/CA9 antibody
Description	Rabbit polyclonal to Carbonic Anhydrase 9/CA9
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC, IHC-Fr, IHC-P, WB
Species reactivity	Reacts with: Rat, Human
Immunogen	<p>Synthetic peptide corresponding to Human Carbonic Anhydrase 9/CA9 aa 359-459. Sequence:</p> <p>LSDTLWGPGDSRLQLNFRATQPLNGRVIEASFPAGVDSS PRAAEPVQLNS CLAAGDILALVFGLLFAVTSVAFLVQMRRQHRRGTKGGVS YRPAEVAETG A</p> <p>Database link: Q16790 (Peptide available as ab109840)</p> <p> Run BLAST with  Run BLAST with</p>
Positive control	WB: Ramos, A549, HeLa and MDA-MB-231 cell lysates; Rat renal cortex lysate. Intr Flow Cyt: A-431 and U-87 MG cells. ICC: A-431 cells. IHC-Fr: Human renal cell cancer tumor sections. IHC-P: Human breast cancer sections.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40

	Preservative: 0.1% Sodium azide
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

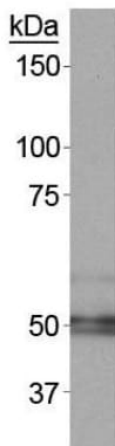
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab15086 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/1000.
ICC		Use a concentration of 2 - 5 µg/ml.
IHC-Fr	★★★★★ (1)	1/200 - 1/500.
IHC-P	★★★★★ (2)	1/200 - 1/500.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 49.7 kDa). Can be blocked with Recombinant Human RND1 protein (ab109840) .

Target

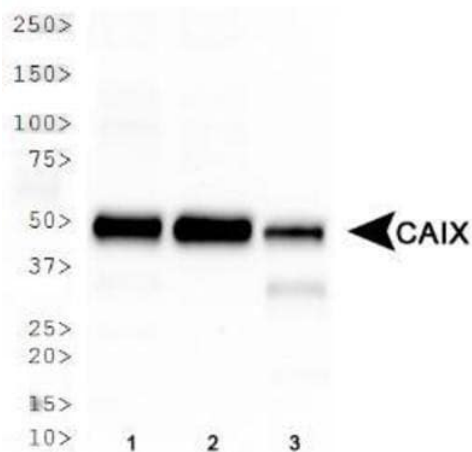
Function	Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia.
Tissue specificity	Expressed primarily in carcinoma cells lines. Expression is restricted 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



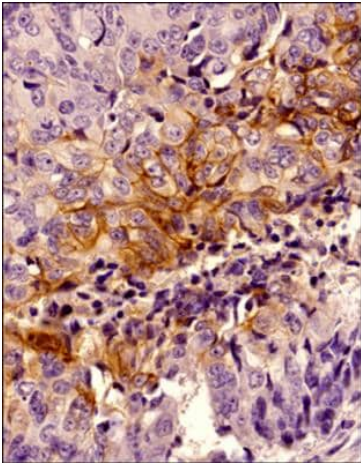
Western blot analysis labeling Carbonic Anhydrase 9/CA9 with ab15086 at 1 ug/ml in rat renal cortex lysate.

Western blot - Anti-Carbonic Anhydrase 9/CA9 antibody (ab15086)



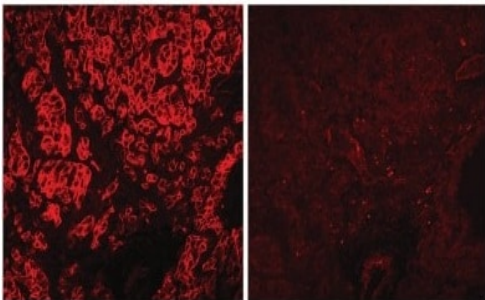
Western blot analysis labeling Carbonic Anhydrase 9/CA9 with ab15086 at 1 ug/ml in 1) HeLa, 2) MDA-MB-231, and 3) A549 whole cell lysates.

Western blot - Anti-Carbonic Anhydrase 9/CA9 antibody (ab15086)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Carbonic Anhydrase 9/CA9 antibody (ab15086)

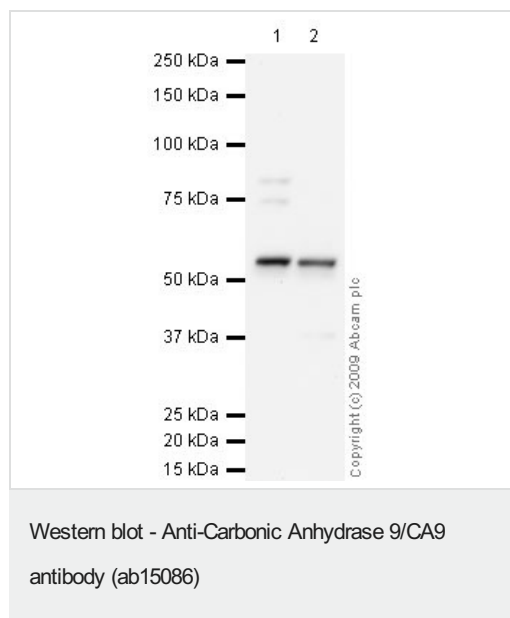
Immunohistochemistry analysis of a formalin-fixed, paraffin-embedded tissue section of human breast cancer using ab15086 at 1:1000 dilution. The primary antibody bound to Carbonic Anhydrase 9/CA9 antigens in the tissue section was detected using a HRP labeled secondary antibody and DAB reagent. Nuclei of the cells were counterstained with hematoxylin. This antibody generated an expected cytoplasmic staining of Carbonic Anhydrase 9/CA9 protein with an intense signal around the cellular membranes in tumor cores. The latter are more likely to be hypoxic in growing tumors which signifies that the observed Carbonic Anhydrase 9/CA9 staining is specific.



SDS epitope unmasking

Immunohistochemistry (Frozen sections) - Anti-Carbonic Anhydrase 9/CA9 antibody (ab15086)

Immunohistochemistry analysis of human renal cell cancer tumor cryosections stained with ab15086 at a 1/500 dilution (left) or normal rabbit serum (right).



All lanes : Anti-Carbonic Anhydrase 9/CA9 antibody (ab15086) at 1 µg/ml

Lane 1 : Ramos (Human Burkitt's lymphoma cell line) Whole Cell Lysate

Lane 2 : A549 (Human lung adenocarcinoma epithelial cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 49.7 kDa

Observed band size: 55 kDa

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