

Datasheet for ABIN390041
anti-CA9 antibody (AA 113-143)

3 Images

1 Publication

[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	CA9
Binding Specificity:	AA 113-143
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CA9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	This CA9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-143 amino acids from the Central region of human CA9.
Clone:	RB18383
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	CA9
Alternative Name:	CA9 (CA9 Products)

Target Details

Background: 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. CA IX is a transmembrane protein and the only tumor-associated carbonic anhydrase isoenzyme known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation.

Molecular Weight: 49698

Gene ID: 768

NCBI Accession: [NP_001207](#)

UniProt: [Q16790](#)

Application Details

Application Notes: IF: 1:10~50. WB: 1:1000. FC: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

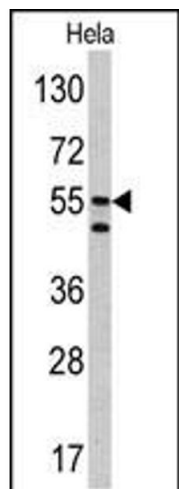
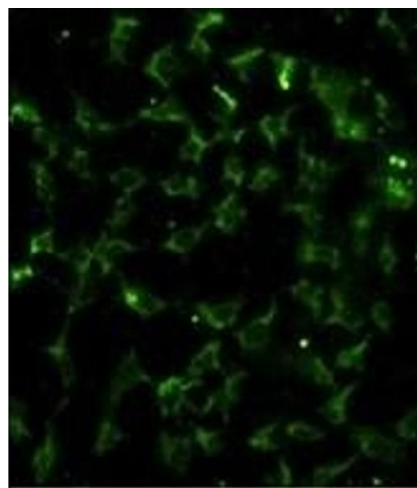
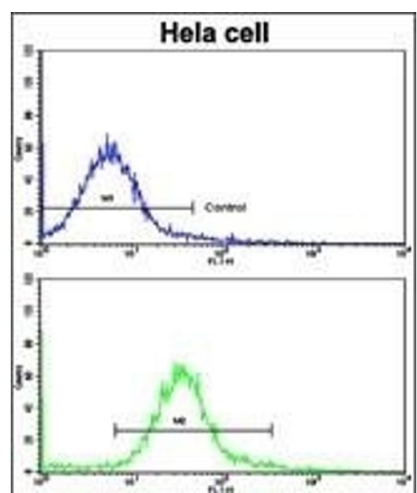
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Publications

Product cited in: Hedlund, Karlsson, Osborn, Ludwig, Isacson: "Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration

and protection." in: **Brain : a journal of neurology**, Vol. 133, Issue Pt 8, pp. 2313-30, (2010) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometric analysis of hela cells using CA9 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Immunofluorescence

Image 2. Immunofluorescence analysis of CA9 Antibody (Center) with hela cells. 0.025 mg/mL primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence.

Western Blotting

Image 3. Western blot analysis of CA9 antibody (Center) (ABIN390041 and ABIN2840124) in HeLa cell line lysates (35 µg/lane). CA9 (arrow) was detected using the purified Pab.