

Product datasheet

Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal ab181464

[4 Images](#)

Overview

Product name	Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal
Description	Mouse monoclonal [10F7A8] to Carbonic Anhydrase 9/CA9 - N-terminal
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	<p>Recombinant fragment corresponding to Human Carbonic Anhydrase 9/CA9 aa 37-186 (N terminal). Expressed in E.coli. Predicted MW of fragment is 42 kDa.</p> <p>Sequence:</p> <p>PQRL PRMQEDSPLG GGSSGEDDPL GEEDLPSEED SPREEDPPGE EDLPGEEDLP GEEDLPEVKP KSEEEGSLKL EDLPTVEAPG DPQEPQNNAH RDKEGDDQSH WRYGGDPPWP RVSPACAGRF QSPVDIRPQL AAFCPALRPL ELLGFQ</p>

Database link: [Q16790](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control	Carbonic Anhydrase 9/CA9 recombinant protein, Carbonic Anhydrase IX (amino acids: 37-186)-hlgGfc transfected HEK293 cell lysate, A431 cell line lysate, SW620 cell line lysate, NTERA2 cells.
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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>
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Properties

Form	Liquid
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Storage instructions	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.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 99% PBS 0.5% protein stabilizer consisting of amino acid =85% pH(1% water solution) =7.0~7.5 Water =2% As(mg/kg) =0.5 Pb(mg/kg) =0.1
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	10F7A8
Isotype	IgG1

Applications

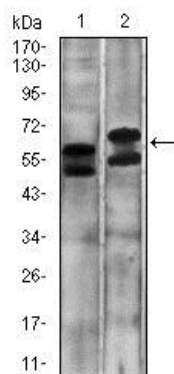
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181464 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 50 kDa.
Flow Cyt		1/200 - 1/400. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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



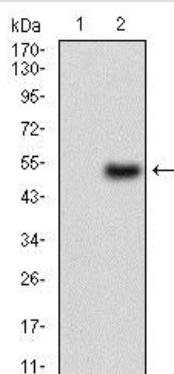
Western blot - Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464)

All lanes : Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464) at 1/500 dilution

Lane 1 : A431 cell line lysate

Lane 2 : SW620 cell line lysate

Predicted band size: 50 kDa



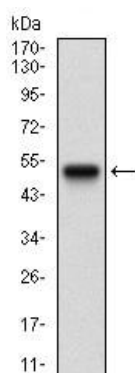
Western blot - Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464)

All lanes : Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464) at 1/500 dilution

Lane 1 : HEK293 cell lysate.

Lane 2 : Carbonic Anhydrase 9/CA9 (Amino acids: 37-186)-hlgFc transfected HEK293 cell lysate

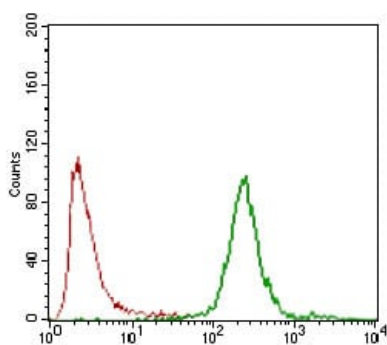
Predicted band size: 50 kDa



Western blot - Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464)

Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464) at 1/500 dilution + Carbonic Anhydrase 9/CA9 recombinant protein

Predicted band size: 50 kDa



Flow cytometric analysis of NTERA2 cells labeling Carbonic Anhydrase 9/CA9 with ab181464 at 1/200 dilution (green) and negative control (red).

Flow Cytometry - Anti-Carbonic Anhydrase 9/CA9 antibody [10F7A8] - N-terminal (ab181464)

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

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