

Rabbit anti-Mouse Carbonic Anhydrase IX/CA9 Polyclonal Antibody | anti-CA9 antibody

Anti-Carbonic Anhydrase IX/CA9 Antibody, Rabbit Polyclonal

CATALOG # AAA259134	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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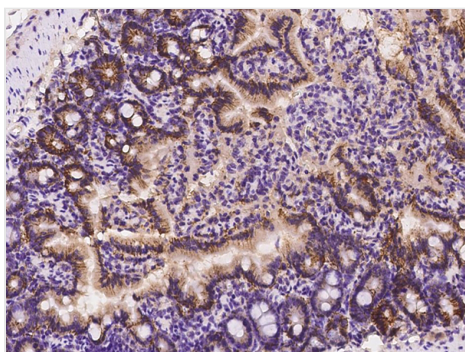
PRODUCT SYNONYMS

Carbonic Anhydrase IX/CA9; Polyclonal Antibody; Anti-Carbonic Anhydrase IX/CA9 Antibody; Rabbit Polyclonal; carbonic anhydrase IX; anti-CA9 antibody

PRODUCT SPECIFICATIONS

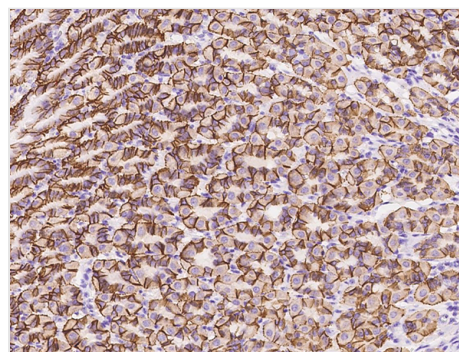
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Carbonic Anhydrase IX/CA9
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CA9 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Carbonic Anhydrase IX/CA9 Protein
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Carbonic Anhydrase IX/CA9 (rM Carbonic Anhydrase IX/CA9). Carbonic Anhydrase IX/CA9 specific IgG was purified by Mouse Carbonic Anhydrase IX/CA9 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



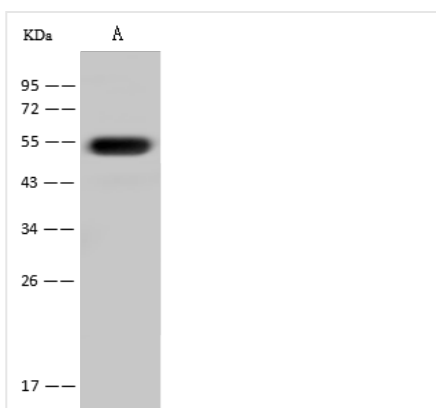
IHC (Immunohistochemistry)

Immunochemical staining of mouse CAR9 in mouse small intestine with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of mouse CAR9 in mouse stomach with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CAR9 rabbit polyclonal antibody at 1:2000 dilution
 Lane A: Mouse stomach tissue lysate
 Lysates/proteins at 30 ug per lane.
 Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
 Developed using the ECL technique.
 Performed under reducing conditions.
 Predicted band size: 50 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CA9 antibody

Carbonic anhydrases IX (CA IX), also known as membrane antigen MN or CA9, is a member of the carbonic anhydrase (CA) family and may be involved in cell proliferation and cellular transformation. CAs are zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide ($\text{H}_2\text{O} + \text{CO}_2 = \text{H}^+ + \text{HCO}_3^-$) and thus participate in a variety of biological and physical processes. CA IX protein is expressed primarily in carcinoma cells lines, and the expression is cell density dependent and has been shown to be strongly induced by hypoxia, accordingly facilitates adaptation of tumor cells to hypoxic conditions. It is involved in tumorigenesis through many pathways, such as pH regulation and cell adhesion control. CA IX is used as a marker of tumor hypoxia and as a new therapeutic target for many human carcinomas and cancers.

References

Loncaster JA, et al. (2001) Carbonic anhydrase (CA IX) expression, a potential new intrinsic marker of hypoxia: correlations with tumor oxygen measurements and prognosis in locally advanced carcinoma of the cervix. *Cancer Res.* 61(17): 6394-9.

Zvada J, et al. (2003) Soluble form of carbonic anhydrase IX (CA IX) in the serum and urine of renal carcinoma patients. *Br J Cancer.* 89(6): 1067-71.

Pan P, et al. (2006) Carbonic anhydrase gene expression in CA II-deficient (Car2^{-/-}) and CA IX-deficient (Car9^{-/-}) mice. *J Physiol.* 571(Pt 2): 319-27.

Zhou GX, et al. (2010) Quantification of carbonic anhydrase IX expression in serum and tissue of renal cell carcinoma patients using enzyme-linked immunosorbent assay: prognostic and diagnostic potentials. *Urology.* 75(2): 257-61.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/carbonic-anhydrase-ix-ca9-antibody-immunohistochemistry-western-blot-elisa/259134>