

Rabbit Carbonic Anhydrase IX Polyclonal Antibody | anti-CA9 antibody

Carbonic Anhydrase IX Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328881	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Dog(100%)	ELISA, Immunocytochemistry, Immunofluorescence

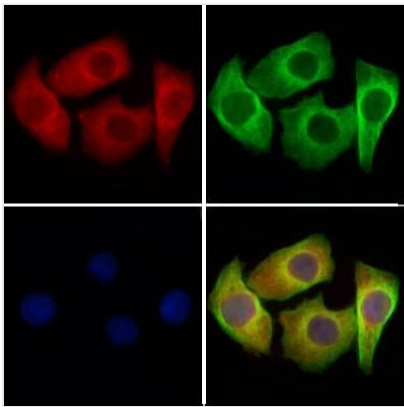
PRODUCT SYNONYMS

Carbonic Anhydrase IX; Polyclonal Antibody; Carbonic Anhydrase IX Antibody; CA-IX; CA9; CAH9_HUMAN; CAIX; Carbonate dehydratase IX; Carbonic anhydrase 9; Carbonic anhydrase IX; Carbonic dehydratase; G250; Membrane antigen MN; MN; P54/58N; pMW1; RCC associated protein G250; RCC-associated antigen G250; Renal cell carcinoma-associated antigen G250; anti-CA9 antibody

PRODUCT SPECIFICATIONS

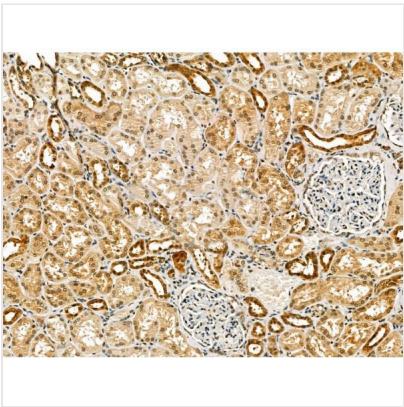
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Carbonic Anhydrase IX Antibody detects endogenous levels of total Carbonic Anhydrase IX.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	459
Applicable Applications for anti-CA9 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence)
Immunogen	A synthesized peptide derived from human Carbonic Anhydrase IX, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



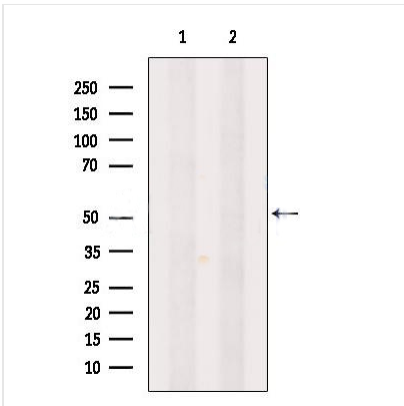
IF (Immunofluorescence)

AAA328881 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328881 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

AAA328881 at 1/100 staining Human kidney cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from EC304 cells, using Carbonic Anhydrase IX Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CA9 antibody

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.

Post Translational Modifications: Asn-346 bears high-mannose type glycan structures.

Subcellular Location: Nucleus. Nucleus>Nucleolus. Cell membrane>Single-pass type I membrane protein. Cell projection>Microvillus membrane>Single-pass type I membrane protein. Note: Found on the surface microvilli and in the nucleus, particularly in nucleolus.

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.

Subunit Structure: Forms oligomers linked by disulfide bonds.

Similarity: Belongs to the alpha-carbonic anhydrase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119578763
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NCBI GeneID	768
UniProt Accession #	Q16790
Molecular Weight	Observed Molecular Weight: (Observed)49kD. Predicted Molecular Weight: (Calculated)50kDa.
NCBI Official Full Name	carbonic anhydrase IX
NCBI Official Synonym Full Names	carbonic anhydrase 9
NCBI Official Symbol	CA9
NCBI Official Synonym Symbols	MN; CAIX
NCBI Protein Information	carbonic anhydrase 9
UniProt Protein Name	Carbonic anhydrase 9
UniProt Gene Name	CA9
UniProt Synonym Gene Names	G250; MN; CA-IX; CAIX; RCC-associated antigen G250

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://stage.aaabiotech.com/polyclonal/carbonic-anhydrase-ix-antibody-immunocytochemistry-immunofluorescence-elisa/328881>