

**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone CA9/781 ]**  
**Catalog # AH12551**

**Specification**

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**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - Product Information**

Application	,1,2,3,4,
Primary Accession	<a href="#">O16790</a>
Other Accession	<a href="#">768</a> , <a href="#">63287</a>
Reactivity	Human, Horse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Calculated MW	55kDa KDa

**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - Additional Information**

**Gene ID** 768

**Other Names**

Carbonic anhydrase 9, 4.2.1.1, Carbonate dehydratase IX, Carbonic anhydrase IX, CA-IX, CAIX, Membrane antigen MN, P54/58N, Renal cell carcinoma-associated antigen G250, RCC-associated antigen G250, pMW1, CA9, G250, MN

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - Protein Information**

**Name** CA9

**Synonyms** G250, MN

**Function**

Catalyzes the interconversion between carbon dioxide and water and the dissociated ions of carbonic acid (i.e. bicarbonate and hydrogen ions).

**Cellular 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

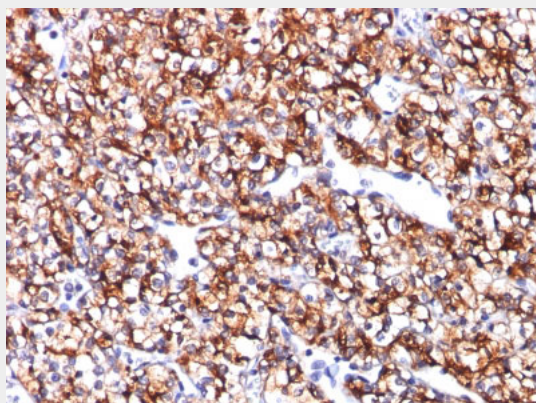
**Tissue Location**

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

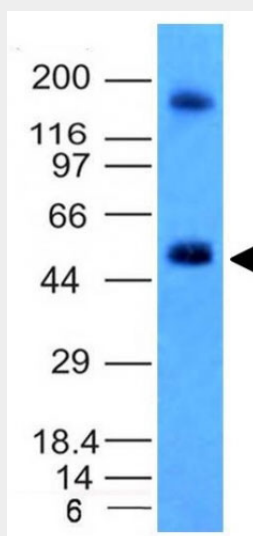
**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - Images**

Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CAIX Monoclonal Antibody (CA9/781).



Western Blot Analysis of HCT116 Cell Lysate using CAIX Monoclonal Antibody (CA9/781).

**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - Background**

Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Carbonic Anhydrases (CAs) are members of a large family of zinc metallo-enzymes that catalyze the reversible hydration of carbon dioxide. CAs are involved 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 juice. They show extensive diversity in distribution and in their subcellular localization. CA IX is specifically expressed in clear-cell renal carcinomas.

**Carbonic Anhydrase IX (Renal Cell Marker) Antibody - With BSA and Azide - References**

Sly, W.S., et al. 1995. Human Carbonic Anhydrases and Carbonic Anhydrase deficiencies. Annu. Rev. Biochem. 64: 375-401