

**CA9 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1500a****Specification**

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**CA9 Antibody - Product Information**

Application	WB, IHC, FC, E
Primary Accession	<a href="#">Q16790</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	50kDa KDa

**Description**

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. 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.

**Immunogen**

Purified recombinant fragment of human CA9 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**CA9 Antibody - 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

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

FC~~1/200 - 1/400

E~~N/A

**Storage**

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.

**Precautions**

CA9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## CA9 Antibody - 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

## CA9 Antibody - 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](#)

## CA9 Antibody - Images

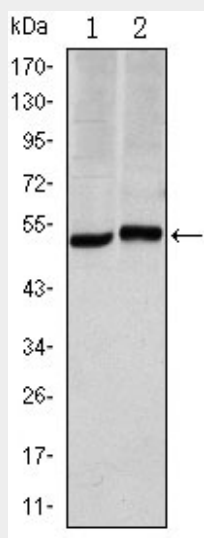


Figure 1: Western blot analysis using CA9 mouse mAb against Hela (1) and A549 (2) cell lysate.

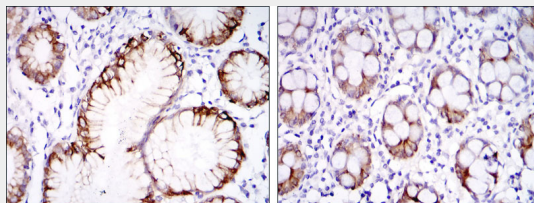


Figure 2: Immunohistochemical analysis of paraffin-embedded stomach tissues (left) and colon tissues (right) using CA9 mouse mAb with DAB staining.

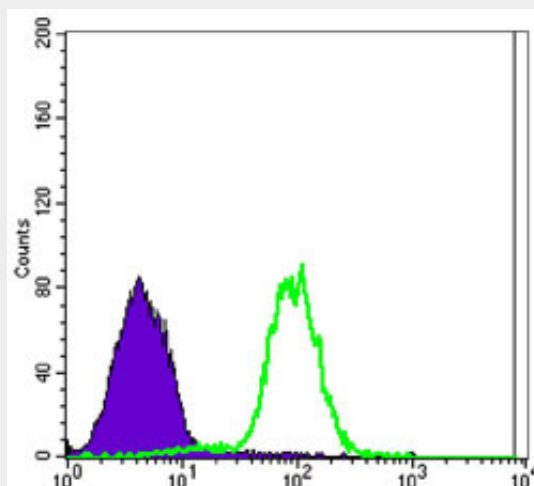


Figure 3: Flow cytometric analysis of NTERA-2 cells using CA9 mouse mAb (green) and negative control (purple).

#### CA9 Antibody - References

1. Br J Cancer. 2008 Sep 2;99(5):727-33.
2. Pathol Res Pract. 2009;205(1):1-9.