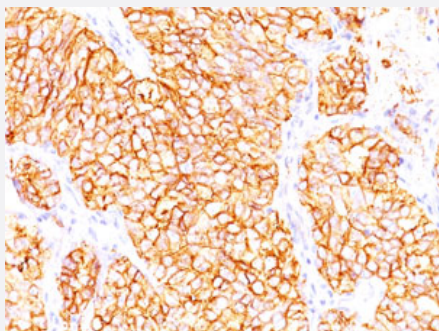


# CA9 monoclonal antibody, clone SPM314

Catalog # MAB12024      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human renal cell carcinoma with CA9 monoclonal antibody, clone SPM314 (Cat # MAB12024).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against CA9.
<b>Immunogen</b>	Microsomal fraction of human renal cortical tissue homogenate.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	200
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification
<b>Isotype</b>	IgG2b, kappa
<b>Recommend Usage</b>	Immunohistochemistry (0.5-1 ug/mL) Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 10mM PBS (0.05% BSA, 0.05% sodium azide).

**Storage Instruction**

Store at 4°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human renal cell carcinoma with CA9 monoclonal antibody, clone SPM314 (Cat # MAB12024).

## Gene Info — CA9

**Entrez GeneID**[768](#)**Gene Name**

CA9

**Gene Alias**

CAIX, MN

**Gene Description**

carbonic anhydrase IX

**Omim ID**[603179](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate 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 acid. They show extensive diversity in tissue distribution and in their subcellular localization. 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. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq]

**Other Designations**

OTTHUMP00000022773|RCC-associated protein G250|carbonic dehydratase

## Pathway

- [Nitrogen metabolism](#)

## Disease

- [Alzheimer disease](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Kidney Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroblastoma](#)