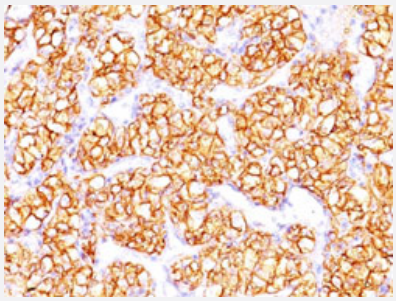
# CA9 monoclonal antibody, clone PN-15

Catalog # MAB14416 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 PN-15 (Cat # MAB14416).

## Specification

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| **Product Description** | Mouse monoclonal antibody raised against native human CA9. |
| **Immunogen** | Microsomal fraction of human renal cortical tissue homogenate. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 55 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A purification |
| **Isotype** | IgG2b, kappa |
| **Recommend Usage** | Flow Cytometry (0.5-1 ug/million cells in 0.1 mL)<br>Immunofluorescence (1-2 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL)<br>Western Blot (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.05% BSA, 0.05% sodium azide). |

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| **Storage Instruction** | Store at 4°C. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d 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 PN-15 (Cat # MAB14416).
- Immunofluorescence
- Flow Cytometry

## Gene Info — CA9

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|---|---|
| **Entrez GeneID** | 768 |
| **Protein Accession#** | Q16790 |
| **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 respir ation, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cer ebrospinal 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 car bonic 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 |

## Publication Reference

- Monoclonal antibody to a proximal nephrogenic renal antigen: immunohistochemical analysis of formalin-fixed, paraffin-embedded human renal cell carcinomas.

  Yoshida SO, Imam A.

  Cancer Research 1989 Apr; 49(7):1802.

  Application: IHC-P, WB-Ce, WB-Ti, Human, Human renal cell carcinomas, Human tissues, RC.7 cells

## 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