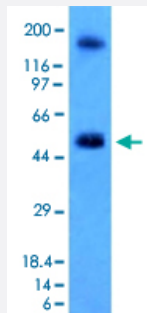


# CA9 monoclonal antibody, clone CA9/781

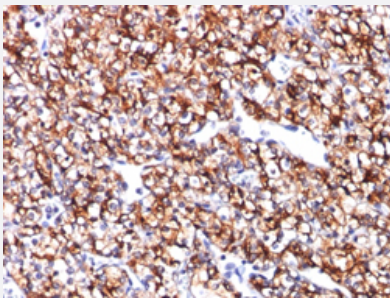
Catalog # MAB13458      Size 100 ug

## Applications



### Western Blot (Cell lysate)

Western Blot analysis of HCT-116 cell lysate with CA9 monoclonal antibody, clone CA9/781 (Cat # MAB13458).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human renal cell carcinoma with CA9 monoclonal antibody, clone CA9/781 (Cat # MAB13458).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against full length recombinant human CA9.
<b>Immunogen</b>	Recombinant protein corresponding to full length human CA9.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	55
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification

Isotype	IgG2b, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10 <sup>6</sup> cells in 0.1 mL) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Cell lysate)

Western Blot analysis of HCT-116 cell lysate with CA9 monoclonal antibody, clone CA9/781 (Cat # MAB13458).

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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human renal cell carcinoma with CA9 monoclonal antibody, clone CA9/781 (Cat # MAB13458).

- Immunofluorescence

- Flow Cytometry

## Gene Info — CA9

Entrez GeneID	<a href="#">768</a>
Protein Accession#	<a href="#">Q16790</a>
Gene Name	CA9
Gene Alias	CAIX, MN
Gene Description	carbonic anhydrase IX
Omim ID	<a href="#">603179</a>
Gene Ontology	<a href="#">Hyperlink</a>

**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](#)