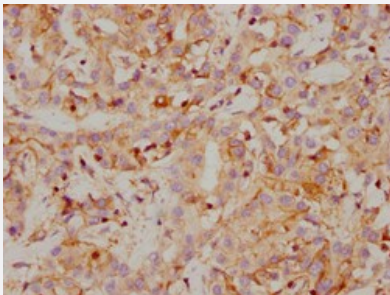


RecomAb™

CA9 recombinant monoclonal antibody, clone 4F12

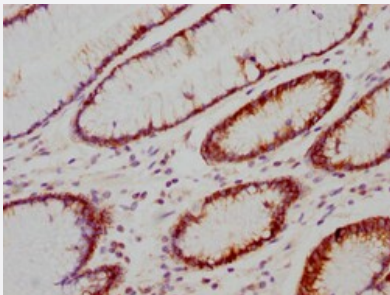
Catalog # RAB04320 Size 100 uL

Applications



Immunohistochemistry

Immunohistochemical staining of human liver cancer with CA9 recombinant monoclonal antibody, clone 4F12 (Cat # RAB04320) (diluted at 1:118)



Immunohistochemistry

Immunohistochemical staining of human gastric cancer with CA9 recombinant monoclonal antibody, clone 4F12 (Cat # RAB04320) (diluted at 1:118)

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CA9.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CA9.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography

Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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

- Immunohistochemistry

Immunohistochemical staining of human liver cancer with CA9 recombinant monoclonal antibody, clone 4F12 (Cat # RAB04320) (diluted at 1:118)

- Immunohistochemistry

Immunohistochemical staining of human gastric cancer with CA9 recombinant monoclonal antibody, clone 4F12 (Cat # RAB04320) (diluted at 1:118)

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CA9

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 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](#)