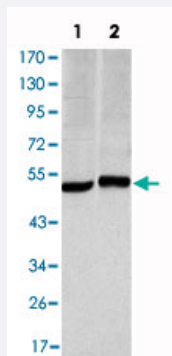


CA9 monoclonal antibody, clone 2D3

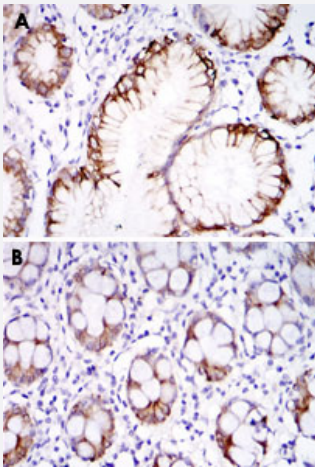
Catalog # MAB10517 Size 100 uL

Applications



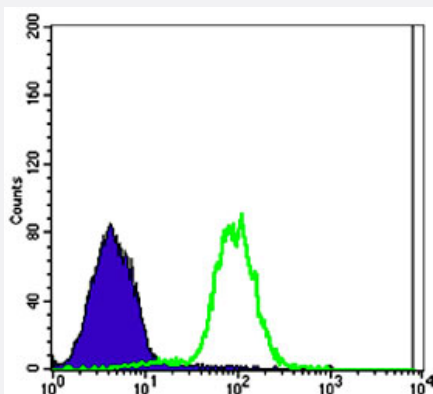
Western Blot (Cell lysate)

Western blot analysis using CA9 monoclonal antibody, clone 2D3 (Cat # MAB10517) against HeLa (1) and A-549 (2) cell lysate.



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

Immunohistochemical analysis of paraffin-embedded human stomach tissues (A) and colon tissues (B) using CA9 monoclonal antibody, clone 2D3 (Cat # MAB10517) with DAB staining.



Flow Cytometry

Flow cytometric analysis of NTERA-2 cells using CA9 monoclonal antibody, clone 2D3 (Cat # MAB10517) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant CA9.
Immunogen	Recombinant protein corresponding to human CA9.
Host	Mouse
Theoretical MW (kDa)	50
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°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 (Cell lysate)

Western blot analysis using CA9 monoclonal antibody, clone 2D3 (Cat # MAB10517) against HeLa (1) and A-549 (2) cell lysate.

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

Immunohistochemical analysis of paraffin-embedded human stomach tissues (A) and colon tissues (B) using CA9 monoclonal antibody, clone 2D3 (Cat # MAB10517) with DAB staining.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of NTERA-2 cells using CA9 monoclonal antibody, clone 2D3 (Cat # MAB10517) (green) and negative control (purple).

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](#)