

CA IX Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0248
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human CA IX expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, FCM, ELISA
Concentration	1 mg/ml
Full name	Carbonic anhydrase 9
Synonyms	CA9; G250; MN; Carbonic anhydrase 9; Carbonate dehydratase IX; Carbonic anhydrase IX; CA-IX; CAIX; Membrane antigen MN; P54; 58N; Renal cell carcinoma-associated antigen G250; RCC-associated antigen G250; pMW1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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 is one of only two tumor-associated carbonic anhydrase isoenzymes 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.

Recommended Dilution

ELISA: 1:10000

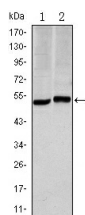
FC: 1:200 - 1:400

IHC: 1:200 - 1:1000

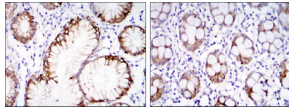
WB: 1:500 - 1:2000

Not yet tested in other applications.

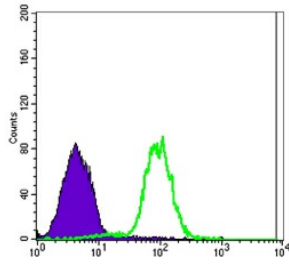
Images



Western Blot analysis using CA IX Monoclonal antibody against HeLa (1) and A549 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded stomach tissues (left) and colon tissues (right) with DAB staining using CA IX Monoclonal antibody.



Flow cytometric analysis of NTERA-2 cells using CA IX Monoclonal antibody (green) and negative control (purple).

Storage

-20°C for one year

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