Antibody

Catalog #: AMM07769



Summary

Production Name CA IX(12F10)Mouse Monoclonal Antibody

Description Mouse Monoclonal Antibody

Host Mouse

Application WB,IHC-P,IF-P,IF-F,ICC/IF

Reactivity Human

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

PBS, pH 7.4, containing 0.5%BSA, 0.02% New type preservative N as Preservative and Buffer

50% Glycerol.

Purification Affinity purification

Immunogen

Gene Name CA9

CA9; G250; MN; Carbonic anhydrase 9; Carbonate dehydratase IX; Carbonic anhydrase

Alternative Names IX; CA-IX; CAIX; Membrane antigen MN; P54/58N; Renal cell carcinoma-associated

antigen G250; RCC-associated antigen G250; pMW1

Gene ID 768.0

SwissProt ID Q16790.Synthetic Peptide of CA IX

Application

Dilution Ratio IF-P/IF-F/ICC/IF 1:50-200, WB 1:3000, IP 1:200, IHC-P 1:50-300

Molecular Weight 38-48kDa

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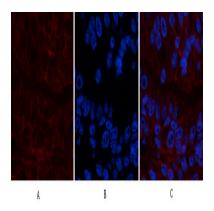
Background

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. [provided by RefSeq, Jun 2014],catalytic activity:H(2)CO(3) = CO(2) + H(2)O.,cofactor:Zinc.,function:Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia.,induction:By hypoxia.,PTM:Asn-346 bears high-mannose type glycan structures.,similarity:Belongs to the alpha-carbonic anhydrase family.,subcellular location:Found on the surface microvilli and in the nucleus, particularly in nucleolus.,subunit:Forms oligomers linked by disulfide bonds.,tissue specificity:Expressed primarily in carcinoma cells lines. Expression is restricted to very few normal tissues and the most abundant expression is found in the epithelial cells of qastric mucosa.,

Research Area

Nitrogen metabolism;

Image Data

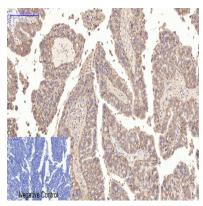


Immunofluorescence analysis of human-liver-cancer tissue. 1,CA IX Monoclonal Antibody (12F10) (red) was diluted at 1:200 (4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

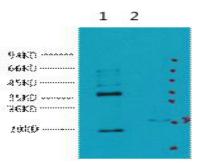
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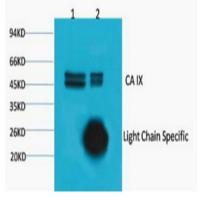




Immunohistochemical analysis of paraffin-embedded Human-lung-cancer tissue. 1,CA IX Monoclonal Antibody (12F10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.



Western blot analysis of 1) Hela, 2) 293T, diluted at 1:5000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .

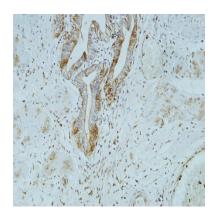


1) Input: Hela Cell Lysate 2) IP product: IP dilute 1:200

Antibody

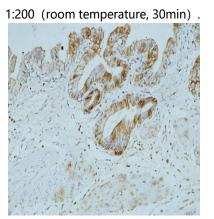
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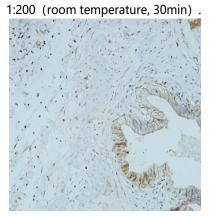
Immunohistochemical analysis of paraffin-embedded Human gallbladder. 1, Antibody was diluted at 1:100 (4°,overnight) .

2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at



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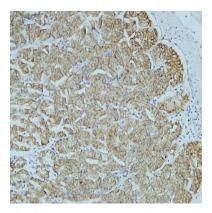
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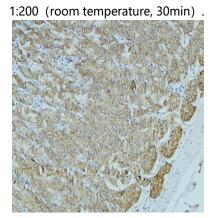
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Immunohistochemical analysis of paraffin-embedded Human stomach. 1, Antibody was diluted at 1:100 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at



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Note

For research use only.