Carbonic Anhydrase IX Mouse Monoclonal Antibody

Catalog No: #38033

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Description

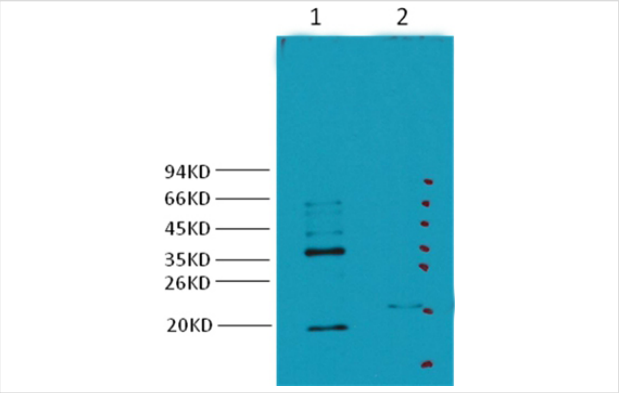
Product Name	Carbonic Anhydrase IX Mouse Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	Affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Hu
Specificity	CA IX Mouse Monoclonal antibody detects endogenous CA IX protein.s
Target Name	Carbonic Anhydrase IX
Other Names	CA-IX; CA9; CAH9; CAIX; Car9; Carbonate dehydratase IX; Carbonic anhydrase 9
Accession No.	Swiss-Prot#:Q16790
Uniprot	Q16790
GeneID	768;
SDS-PAGE MW	49kd
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

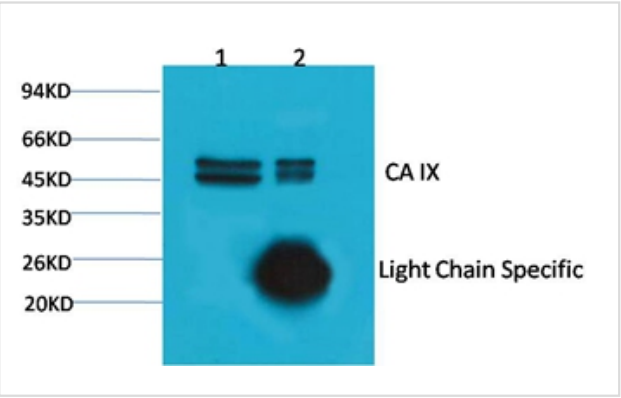
WB dilution: 1:3000~1:5000

IP dilution: 1:200IHC dilution:1:50-300IF dilution:1:200

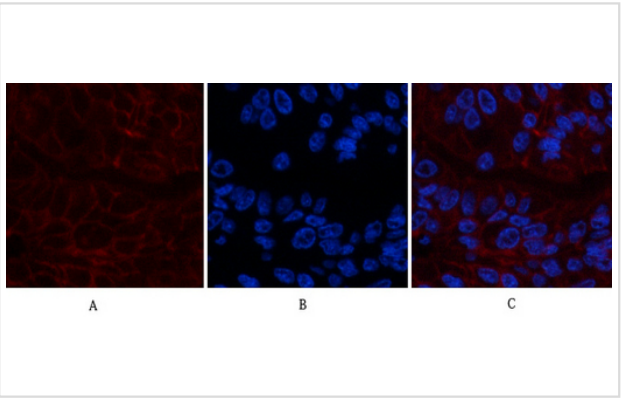
Images



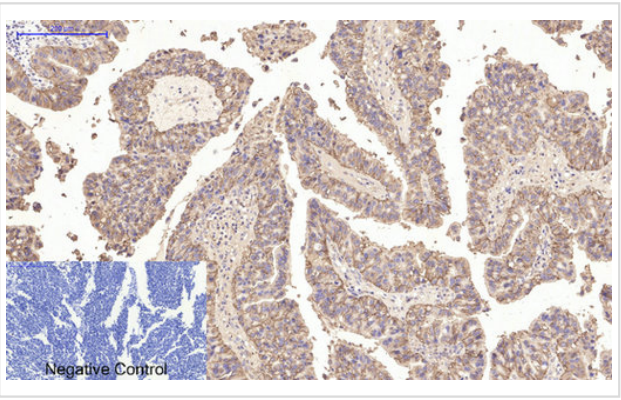
Western blot analysis of 1) Hela, 2) 293T, using #38033 diluted at 1:5,000.



1B'B'Input: Hela Cell Lysate
2B'B'IP product: IP dilute 1:200
Western blot analysis: primary antibody : #38033 1:2,000
Secondary antibody: Goat anti-Mouse IgG, Light chain specific, 1:5,000



Immunofluorescence analysis of human-liver-cancer tissue. 1,CA IX Monoclonal Antibody(12F10)(red) was diluted at 1:200(4C,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



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

Background

The carbonic anhydrases (or carbonate dehydratases) form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons (or vice versa), a reversible reaction that occurs rather slowly in the absence of a catalyst. CAIX is considered to be one of the best cellular biomarkers of hypoxia. Furthermore, recent studies examining the association between CAIX levels and various clinicopathological outcomes suggest that CAIX expression may also be a valuable prognostic indicator for overall survival. Antibodies against CAIX serve as excellent excellent biomarkers of hypoxic regions in many solid tumors

Note: This product is for in vitro research use only