CA IX (12F10) Mouse mAb

CatalogNo: YM3076 Comparable Abs

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- IF,WB,IHC,IP

MW
- 38-48kD (Observed)

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

IF 1:50-200
WB 1:3000
IP 1:200
IHC 1:50-300

Basic Information

Clonality	Monoclonal
Clone Number	12F10

Immunogen Information

Immunogen	Synthetic Peptide of CA IX
Specificity	The antibody detects endogenous CA IX proteins.

Target Information

Gene name CA9

Protein Name Carbonic anhydrase 9

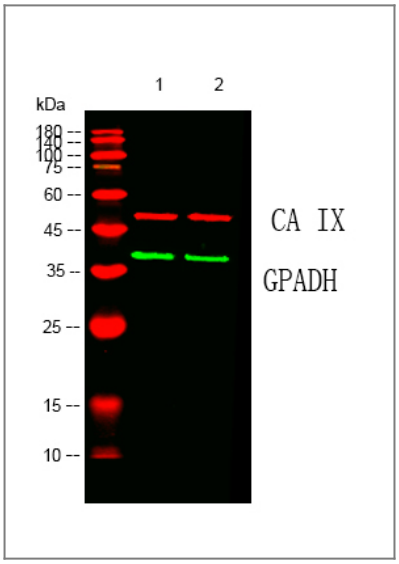
Organism	Gene ID	UniProt ID
Human	768;	Q16790;
Mouse	230099;	Q8VHB5;

Cellular Localization Nucleus . Nucleus, nucleolus . Cell membrane ; Single-pass type I membrane protein . Cell projection, microvillus membrane ; Single-pass type I membrane protein . Found on the surface microvilli and in the nucleus, particularly in nucleolus.

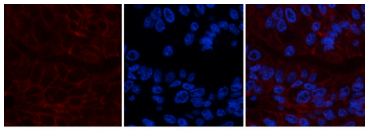
Tissue specificity Expressed primarily in carcinoma cells lines. Expression is restricted to very few normal tissues and the most abundant expression is found in the epithelial cells of gastric mucosa.

Function 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 gastric mucosa.,

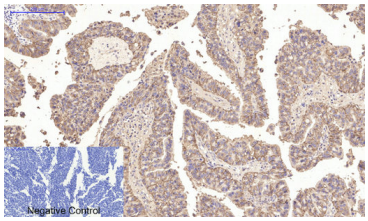
Validation Data



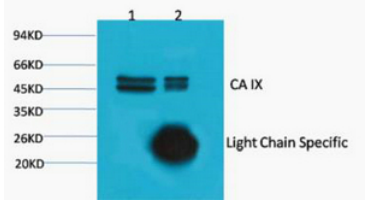
Western blot analysis of lysates from 1) Hela, 2) 293T cells, (Red) primary antibody was diluted at 1:1000, 4°over night, Dylight 680 secondary antibody(Immunoway:RS23710 was diluted at 1:10000, 37° 1hour. (Green) GAPDH mAb (Immunoway:YM3029) antibody was diluted at 1:5000 as loading control, 4° over night,Dylight 800 secondary antibody(Immunoway:RS23910)was diluted at 1:10000, 37° 1hour.



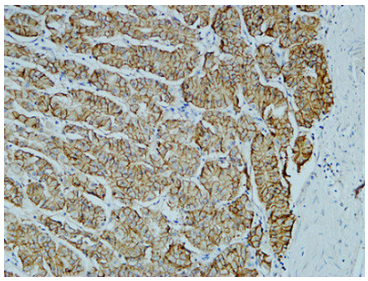
Immunofluorescence analysis of human-liver-cancer tissue. 1,CA IX Monoclonal Antibody(12F10)(red) was diluted at 1:200(4℃,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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



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



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 1:200(room temperature, 30min).

Contact information

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Please scan the QR code to access additional product information:
CA IX (12F10) Mouse mAb