

## CA9 Monoclonal Antibody

**catalog number: E-AB-22034**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

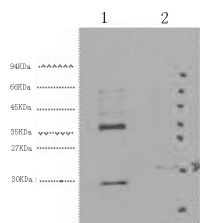
<b>Reactivity</b>	Human
<b>Immunogen</b>	Synthetic Peptide
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Clone</b>	9B5
<b>Purification</b>	Protein A purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.

### Applications

### Recommended Dilution

<b>WB</b>	1:1000-1:3000
<b>IHC</b>	1:50-300
<b>IF</b>	1:50-1:200

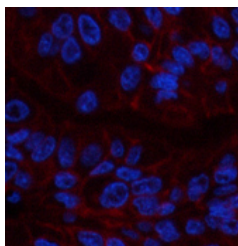
### Data



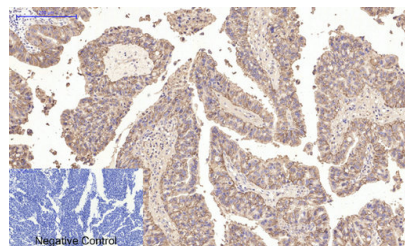
Western Blot analysis of 1) Hela, 2) 293T cells using CA9 Monoclonal Antibody at dilution of 1:5000.

**Observed-MW:35-38 kDa**

**Calculated-MW:50 kDa**



Immunofluorescence analysis of Human liver cancer tissue using CA9 Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using CA9 Monoclonal Antibody at dilution of 1:200.

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### Background

### For Research Use Only

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.

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