



## Carbonic Anhydrase 9 (ANT0009R) Rabbit mAb

CatalogNo: ANT8132 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,Mouse,Rat,

### Reactivity

- WB,IHC,IF,IP,ELISA

### Applications

### MW

- 49kD (Calculated)
  - IgG,Kappa
- 49kD (Observed)

### Isotype

## Recommended Dilution Ratios

IHC 1:200-1000

WB 1:1000-5000

IF 1:200-1000

ELISA 1:5000-20000

IP 1:50-200

## Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0009R

## Target Information

Endogenous

Gene name CA9  
Protein Name Carbonic anhydrase 9

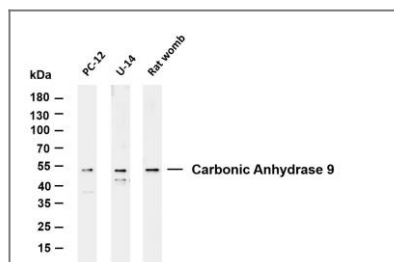
Organism	Gene ID	UniProt ID
Human	<a href="#">768;</a>	<a href="#">Q16790;</a>
Mouse	<a href="#">230099;</a>	<a href="#">Q8VHB5;</a>

Cellular Localization Membranous

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.

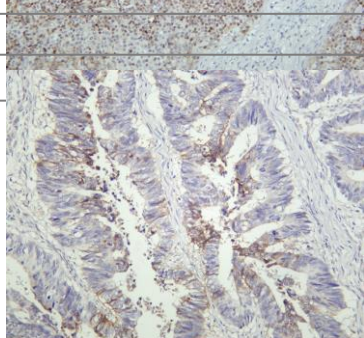
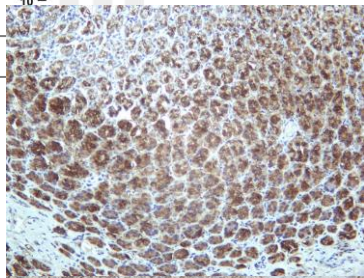
Function Catalytic activity: $\text{H(2)CO(3)} = \text{CO(2)} + \text{H(2)O}$ .,cofactor:Zinc.,Function:Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia.,induction:By hypoxia.,ANTM: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

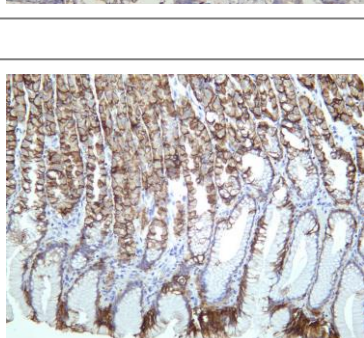


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Carbonic Anhydrase 9 (ANT0009R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: PC-12 Lane 2: U-14 Lane 3: Rat womb Predicted band size: 49kDa Observed band size: 49kDa

Human tonsil was stained with Anti-Carbonic Anhydrase 9 (ANT0009R) rabbit antibody  
Rat stomach was stained with Anti-Carbonic Anhydrase 9 (ANT0009R) rabbit antibody



Human colon carcinoma was stained with Anti-Carbonic Anhydrase 9 (ANT0009R) rabbit antibody



Human stomach was stained with Anti-Carbonic Anhydrase 9 (ANT0009R) rabbit antibody

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