**CA9 Polyclonal ANTIBODY**

**Catalog Number:** 11071-1-AP

### Basic Information

- **Catalog Number:** 11071-1-AP
- **Size:** 40 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1540

**GenBank Accession Number:** BC014950

**Gene ID (NCBI):** 768

**Full Name:** carbonic anhydrase IX

**Calculated MW:** 459aa, 50 kDa

**Observed MW:** 60-70 kDa

### Applications

**Tested Applications:** FC, IHC, IP, WB, ELISA

**Cited Applications:** IHC, WB

**Species Specificity:** human, mouse

**Cited Species:** human, mouse

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0. (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

### Background Information

CA9 (Carbonic anhydrase 9) may be involved in the control of cell proliferation and transformation and appears to be a novel specific biomarker for a cervical neoplasia (PMID: 18703501). It is a tumor-associated antigen that has been shown to have diagnostic utility in identifying cervical dysplasia and carcinoma. The protein is present both on the plasma membrane and in the nucleus of cells and has the molecular. It was observed the 54KDa and 58 Kda bands in A549 (JOC, vol21, no.3, 473-482).

### Positive Controls

- **WB:** HEK-293 cells, A375 cells, A431 cells, A649 cells, HeLa cells, HepG2 cells, MCF-7 cells, mouse brain tissue, mouse kidney tissue, mouse skin tissue, rat brain tissue
- **IP:** mouse liver tissue
- **IHC:** human renal cell carcinoma tissue, human liver cancer tissue, human lung cancer tissue, human prostate cancer tissue, human stomach tissue, human stomach cancer tissue

### Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage.

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For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

HEK-293 cells were subjected to SDS PAGE followed by western blot with 11071-1-AP (CA IX antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

IP Result of anti-CA IX (IP: 11071-1-AP, 4ug; Detection: 11071-1-AP 1:500) with mouse liver tissue lysate 4000ug.

Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 11071-1-AP (CA IX antibody at dilution of 1:50 (under 10x lens).

1X10^6 HEK-293 cells were stained with 0.2ug CA IX antibody (11071-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488 conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) with dilution 1:1000.

Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 11071-1-AP (CA IX antibody at dilution of 1:50 (under 40x lens).

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