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
- GenBank Accession Number: BC014950
- GeneID (NCBI): 768
- Full Name: carbonic anhydrase IX
- Calculated MW: 459aa, 50 kDa
- Observed MW: 60-70 kDa
- Recommended Dilutions:
  - WB: 1:500-1:2000
  - IP: 0.5-4.0 μg for IP and 1:500-1:1000 for WB
  - IHC: 1:20-1:200

Applications
- Tested Applications: FC, IHC, IP, WB, ELISA
- Cited Applications: IHC, WB
- Species Specificity:
  - human, mouse
- Cited Species:
  - human, mouse

Background Information
CA9 (Carbonic anhydrase IX) 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).

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hiromichi Iwashita</td>
<td>28906644</td>
<td>Pathol Int</td>
<td>IHC</td>
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<tr>
<td>Hiroshi Nakamura</td>
<td>26262083</td>
<td>Lung Cancer</td>
<td>IHC</td>
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<tr>
<td>Andrew J Clark</td>
<td>27901839</td>
<td>Proc Natl Acad Sci U S A</td>
<td>IHC</td>
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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.

For technical support and original validation data for this product please contact:
- T: (888) 4PTGLAB (toll free in USA), or (312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

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

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

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

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