

For Research Use Only

Carbonic Anhydrase IX/CA9 Polyclonal antibody

Catalog Number: 11071-1-AP

Featured Product

46 Publications



Basic Information

Catalog Number:

11071-1-AP

Concentration:

350 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1540

GenBank Accession Number:

BC014950

GeneID (NCBI):

768

UNIPROT ID:

Q16790

Full Name:

carbonic anhydrase IX

Calculated MW:

459 aa, 50 kDa

Observed MW:

60-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

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

Positive Controls:

WB : A549 cells, HeLa cells, HEK-293 cells, mouse brain tissue

IP : mouse liver tissue,

IHC : human stomach tissue, human renal cell carcinoma tissue

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. Western blotting detected CA9 protein at a molecular weight of 70 kDa (PMID: 31819036).

Notable Publications

Author	Pubmed ID	Journal	Application
Pan-Ling Xu	34597654	J Ethnopharmacol	WB
Hiromichi Iwashita	28960644	Pathol Int	IHC
Xue Wang	33111989	Thorac Cancer	WB,IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% 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:

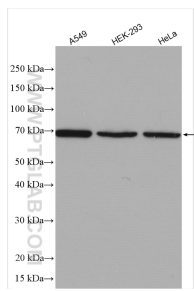
T: 4006900926

E: Proteintech-CN@ptglab.com

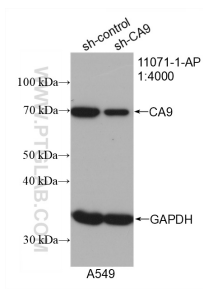
W: ptgcn.com

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

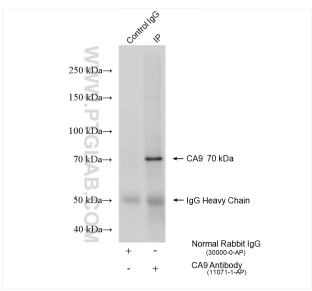
Selected Validation Data



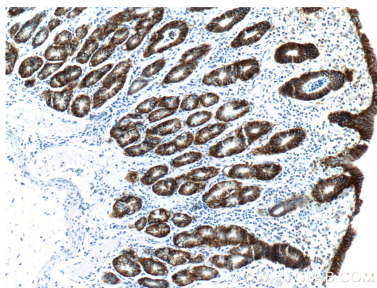
Various lysates were subjected to SDS PAGE followed by western blot with 11071-1-AP (CA9 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of CA9 antibody (11071-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CA9 transfected A549 cells.



IP result of anti-CA9 (IP:11071-1-AP, 4ug; Detection:11071-1-AP 1:3000) with mouse liver tissue lysate 2240 ug.



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