

For Research Use Only

Carbonic Anhydrase IX/CA9 Monoclonal antibody



Catalog Number: 66243-1-Ig

8 Publications

Basic Information

Catalog Number:

66243-1-Ig

Concentration:

2900 µg/ml

Source:

Mouse

Isotype:

IgG2a

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:

50 kDa

Purification Method:

Protein A purification

CloneNo.:

1G4G5

Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:20-1:200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, pig, rabbit

Cited Species:

human, pig

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: U-87 MG cells, pig stomach tissue, pig brain tissue

IHC: 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 weight of 54 kDa and 58 kDa bands in A549.

Notable Publications

Author	Pubmed ID	Journal	Application
Shaoquan Zheng	32521117	Mol Oncol	IF
Zhou Lan	36675491	J Clin Med	IHC
Qiangqiang Liu	35913115	Elife	IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

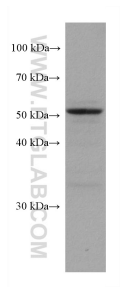
T: 4006900926

E: Proteintech-CN@ptglab.com

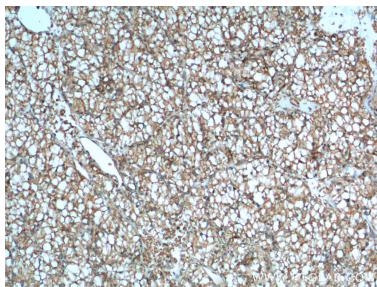
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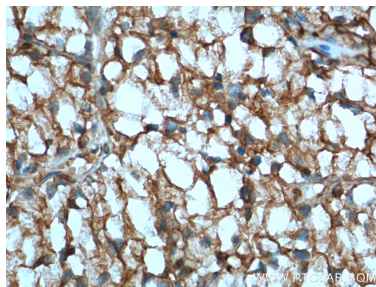
Selected Validation Data



U-87 MG cells were subjected to SDS PAGE followed by western blot with 66243-1-Ig (CA9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 66243-1-Ig (CA9 Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 66243-1-Ig (CA9 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).