

For Research Use Only

# CA9 Monoclonal antibody

Catalog Number: 66243-1-Ig 5 Publications



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>66243-1-Ig   | <b>GenBank Accession Number:</b><br>BC014950 | <b>Purification Method:</b><br>Protein A purification               |
| <b>Size:</b><br>150ul , Concentration: 2900 µg/ml by Nanodrop and 1360 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>768                 | <b>CloneNo.:</b><br>1G4G5   |
| <b>Source:</b><br>Mouse  | <b>Full Name:</b><br>carbonic anhydrase IX   | <b>Recommended Dilutions:</b><br>WB 1:1000-1:6000<br>IHC 1:20-1:200 |
| <b>Isotype:</b><br>IgG2a   | <b>Calculated MW:</b><br>459 aa, 50 kDa      |   |
| <b>Immunogen Catalog Number:</b><br>AG1540   | <b>Observed MW:</b><br>50 kDa                |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>FC, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : U-87 MG cells, pig stomach tissue, pig brain tissue<br>IHC : human renal cell carcinoma tissue, |
| <b>Cited Applications:</b><br>IF, IHC, WB  |   |
| <b>Species Specificity:</b><br>human, mouse, pig, rabbit   |   |
| <b>Cited Species:</b><br>human, pig  |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## 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 54KDa and 58 Kda bands in A549.

## Notable Publications

| Author            | Pubmed ID | Journal      | Application |
|-------------------|-----------|--------------|-------------|
| Shaoquan Zheng    | 32521117  | Mol Oncol    | IF          |
| Qiangqiang Liu    | 35913115  | Elife        | IF          |
| Muhibullah S Tora | 37752585  | J Transl Med | IHC         |

## Storage

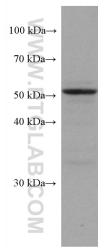
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

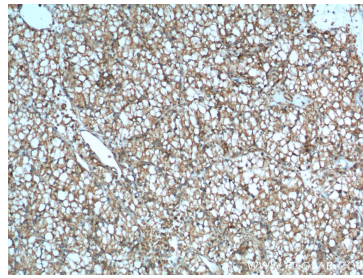
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

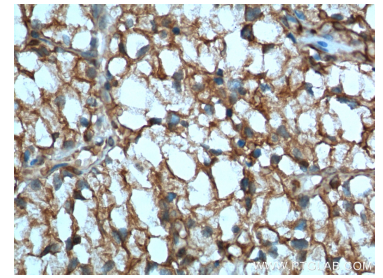
## Selected Validation Data



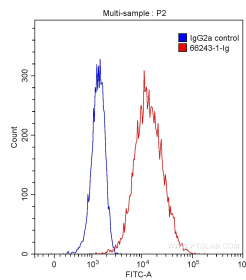
U-87 MG cells were subjected to SDS PAGE followed by western blot with 66243-1-Ig (CA9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).



1X10<sup>6</sup> HEK-293 cells were stained with 0.20 ug/test Anti-Human CA9 (66243-1-Ig, Clone:1G4G5) (red) or 0.20 ug control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. Fixed with 90% MeOH.