

For Research Use Only

CA4 Polyclonal antibody

Catalog Number: 13931-1-AP

5 Publications



Basic Information

Catalog Number:

13931-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4960

GenBank Accession Number:

BC057792

GeneID (NCBI):

762

UNIPROT ID:

P22748

Full Name:

carbonic anhydrase IV

Calculated MW:

35 kDa

Observed MW:

35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : mouse lung tissue, rat lung tissue

IHC : human colon cancer tissue,

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

CA4 (Carbonic anhydrase 4) is a glycosylphosphatidyl-inositol-anchored membrane isozyme expressing on the luminal surfaces of pulmonary, chorionic (and certain other) capillaries and of proximal renal tubules. It plays a critical role by maintaining the pH in the outer retina, which is important for the normal function of photoreceptors. This protein belongs to the alpha-carbonic anhydrase family.

Notable Publications

Author	Pubmed ID	Journal	Application
Wanpeng Wang	35281862	J Cancer	WB
Zhi-Jie Gao	38855191	Theranostics	IHC
Linchao Yu	38574235	Am J Respir Cell Mol Biol	IF

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

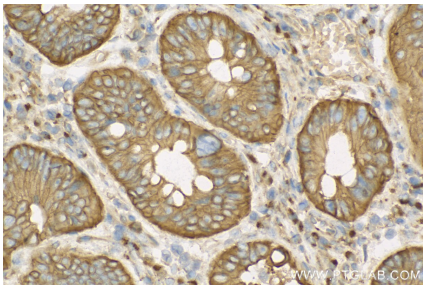
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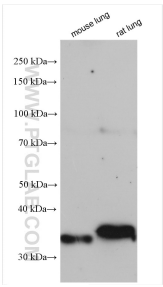
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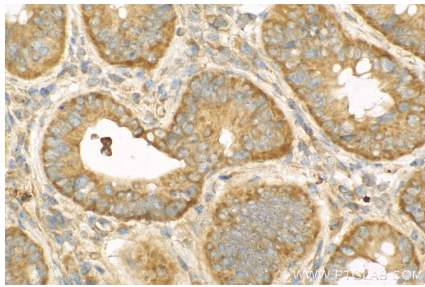
Selected Validation Data



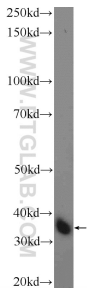
Immunohistochemical analysis of paraffin-embedded Colorectal cancer slide using 13931-1-AP (CA4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 13931-1-AP (CA4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded Colorectal cancer slide using 13931-1-AP (CA4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse lung tissue were subjected to SDS PAGE followed by western blot with 13931-1-AP (CA4 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.