

**Product Name: CA VIII Rabbit Polyclonal Antibody**  
**Catalog #: APRab07773**



## Summary

<b>Production Name</b>	CA VIII Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	CA8
<b>Alternative Names</b>	CA8; CALS; Carbonic anhydrase-related protein; CARP; Carbonic anhydrase VIII; CA-VIII
<b>Gene ID</b>	767.0
<b>SwissProt ID</b>	P35219. Synthesized peptide derived from the Internal region of human CA VIII.

## Application

<b>Dilution Ratio</b>	IHC-P 100-300.WB 1:500-1:2000, ELISA 1:40000, IF-P/IF-F/ICC/IF 1:50-200
<b>Molecular Weight</b>	

## Background

The protein encoded by this gene was initially named CA-related protein because of sequence similarity to other known carbonic anhydrase genes. However, the gene product lacks carbonic anhydrase activity (i.e., the reversible hydration of

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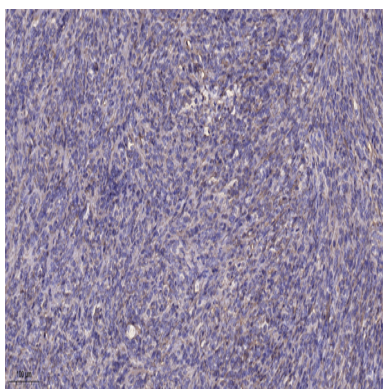


carbon dioxide). The gene product continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. The absence of CA8 gene transcription in the cerebellum of the lurcher mutant in mice with a neurologic defect suggests an important role for this acatalytic form. Mutations in this gene are associated with cerebellar ataxia, mental retardation, and dysequilibrium syndrome 3 (CMARQ3). Polymorphisms in this gene are associated with osteoporosis, and overexpression of this gene in osteosarcoma cells suggests an oncogenic role. Alternative splicing results in multiple transcript variants. [providedfunction:Does not have a carbonic anhydrase catalytic activity.,similarity:Belongs to the alpha-carbonic anhydrase family.,

## Research Area

Nitrogen metabolism;

## Image Data



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200 (4° overnight) .  
2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min) .

## Note

For research use only.