

For Research Use Only

# CA8 Recombinant antibody

Catalog Number: 86004-1-RR



## Basic Information

<b>Catalog Number:</b> 86004-1-RR	<b>GenBank Accession Number:</b> BC015531	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 767	<b>CloneNo.:</b> 25042988
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35219	<b>Recommended Dilutions:</b> IHC: 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> carbonic anhydrase VIII	
<b>Immunogen Catalog Number:</b> AG3068	<b>Calculated MW:</b> 290 aa, 32 kDa	

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : Mouse cerebellum tissue,
<b>Species Specificity:</b> human, mouse	
<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

The CA8 (CARP) gene encodes carbonic anhydrase VIII, which is part of a family of zinc metalloenzyme. CA8 has a central carbonic anhydrase motif, but it lacks carbonic anhydrase activity due to absence of catalytic zinc coordinating residues(PMID:2121526). CARP is a novel IP3R1-binding protein, and is expressed in Purkinje cells abundantly. CA8 is co-localized with IP3R1 in Purkinje cells and it binds to IP3R1, reducing the affinity of the receptor for its ligand, IP3(PMID:12611586). Defects in CA8 are the cause of cerebellar ataxia mental retardation and dysequilibrium syndrome type 3 (CMARQ3)(PMID:19461874).

## Storage

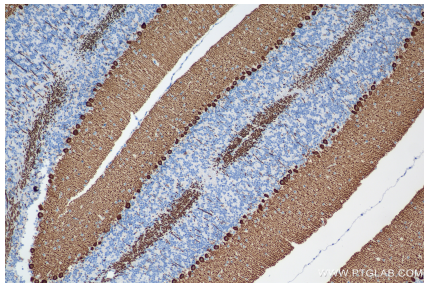
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

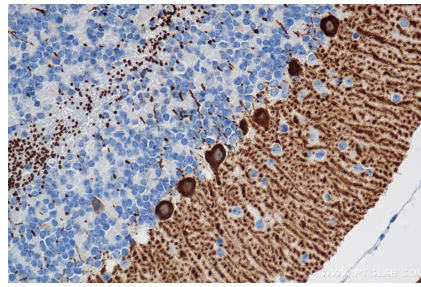
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded Mouse cerebellum tissue slide using 86004-1-RR (CA8 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded Mouse cerebellum tissue slide using 86004-1-RR (CA8 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).