

For Research Use Only

# CA8 Recombinant antibody, PBS Only

Catalog Number: 86004-1-PBS



## Basic Information

<b>Catalog Number:</b> 86004-1-PBS	<b>GenBank Accession Number:</b> BC015531	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 767	<b>CloneNo.:</b> 250429B8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35219	
<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

**Tested Applications:**  
IHC, Indirect ELISA

**Species Specificity:**  
human, mouse

## 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

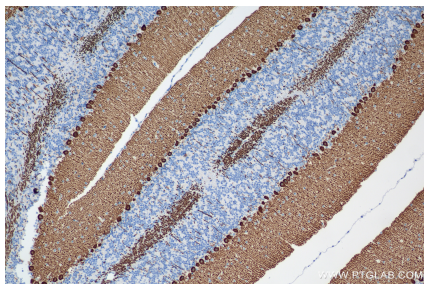
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

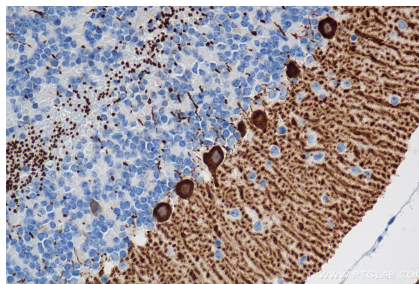
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



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). This data was developed using the same antibody clone with 86004-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86004-1-PBS in a different storage buffer formulation.