

For Research Use Only

CA8 Recombinant antibody

Catalog Number: 86004-1-RR



Basic Information

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

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : Mouse cerebellum tissue,
Species Specificity: human, mouse	
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

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

For technical support and original validation data for this product please contact:

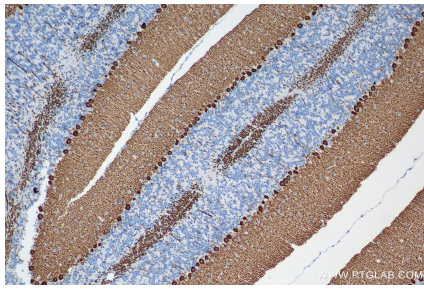
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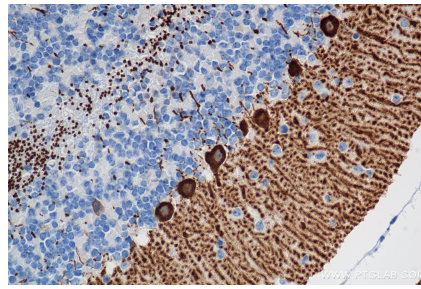
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Selected Validation Data



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).