

For Research Use Only

# CA8 Recombinant antibody, PBS Only

Catalog Number: 86004-2-PBS



## Basic Information

Catalog Number:	86004-2-PBS	GenBank Accession Number:	BC015531	Purification Method:	Protein A purification
Concentration:	1 mg/ml	GeneID (NCBI):	767	Clone No.:	250429C4
Source:	Rabbit	UNIPROT ID:	P35219		
Isotype:	IgG	Full Name:	carbonic anhydrase VIII		
Immunogen Catalog Number:	AG3068	Calculated MW:	290 aa, 32 kDa		
		Observed MW:	32-35 kDa		

## Applications

### Tested Applications:

WB, Indirect ELISA

### Species Specificity:

human, mouse, rat

## 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C.

### Storage Buffer:

PBS only, pH7.3

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

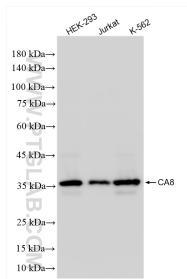
T: 4006900926

E: Proteintech-CN@ptglab.com

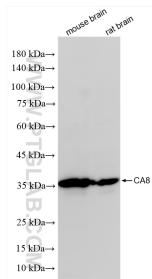
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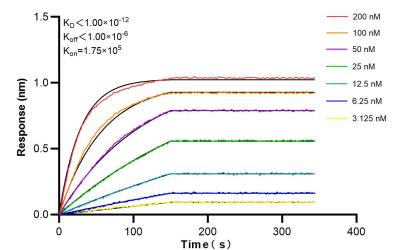
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86004-2-RR (CA8 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86004-2-PBS in a different storage buffer formulation.



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Biolayer interferometry (BLI) kinetic assays of 86004-2-RR against Human CA8 were performed. The affinity constant is below 1 pM.