

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 |
| Size:                     | 100ug, Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI):            | 767                     | CloneNo.:            | 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.

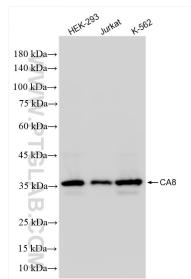
### Storage Buffer:

PBS only, pH7.3

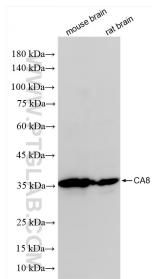
For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
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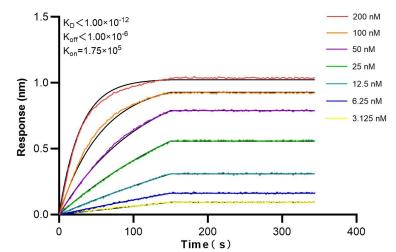
## Selected Validation Data



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.