

For Research Use Only

CA8 Recombinant antibody

Catalog Number: 86004-2-RR



Basic Information

Catalog Number:	86004-2-RR	GenBank Accession Number:	BC015531	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by 767	GeneID (NCBI):	767	CloneNo.:	250429C4
Nanodrop:		UNIPROT ID:	P35219	Recommended Dilutions:	WB: 1:5000-1:50000
Source:	Rabbit	Full Name:	carbonic anhydrase VIII		
Isotype:	IgG	Calculated MW:	290 aa, 32 kDa		
Immunogen Catalog Number:	AG3068	Observed MW:	32-35 kDa		

Applications

Tested Applications:	WB, ELISA	Positive Controls:	WB: HEK-293 cells, mouse brain tissue, Jurkat cells, K-562 cells, rat brain tissue
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

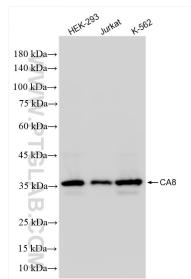
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

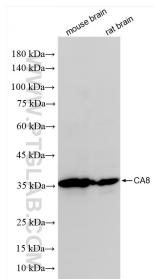
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
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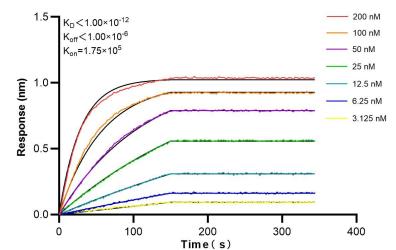
Selected Validation Data



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.



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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.