For Research Use Only

## CA8 Polyclonal antibody

Catalog Number:12391-1-AP

Featured Product

7 Publications

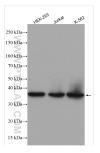


Basic Information	Catalog Number:	GenBank Accession Nu			
	12391-1-AP Size:	BC015531 GeneID (NCBI):	•	finity purification	
	650 µg/ml	767	WB 1:2000		
	Source: UNIPROT ID: Rabbit P35219		IP 0.5-4.0	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	lsotype: IgG	Full Name: carbonic anhydrase VI			
	Immunogen Catalog Number: Calculated MW:   AG3068 290 aa, 32 kDa				
		Observed MW: 32 kDa	Observed MW:		
Applications	Tested Applications:		Positive Controls:		
	IHC, IP, WB,ELISA Cited Applications:		WB : HEK-293 cells, mouse brain tissue, Jurkat cells, H 562 cells		
	IF, IHC, IP, WB		IP : mouse brain tissue,		
	Species Specificity: human, mouse, rat	IHC: human gliomas tissue, mouse cerebellum tissue			
	Cited Species: human, mouse, rat				
	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 ar dysequilibrium syndrome type 3 (CMARQ3)(PMID:19461874).				
Notable Publications	Author	Pubmed ID Journa	l	Application	
	Huai-Lu Ma	31715371 Biomed	l Pharmacother	WB,IHC	
	Ken Asada	33928345 Nucleid	Acids Res	IP	
	Liddelow Shane A SA	23843944 PLoS O	ne	IHC	
	Storage:				

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

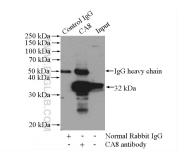
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12391-1-AP (CA8 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 12391-1-AP (CA8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CA8 (IP:12391-1-AP, 4ug; Detection:12391-1-AP 1:1000) with mouse brain tissue lysate 4000ug.