

CA8 Polyclonal Antibody

Catalog number: 12391-1-AP

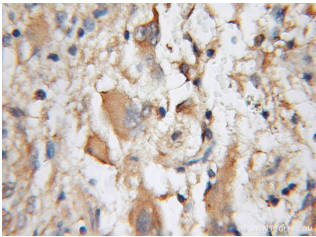
Size: 50 µg/150 µl

Source: Rabbit

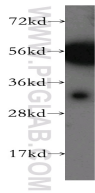
Isotype: IgG

Synonyms:

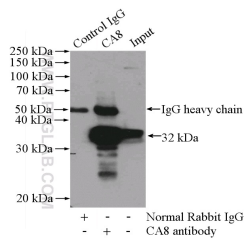
CA8; CA VIII, CA8, CALS,
carbonic anhydrase VIII, CARP



Immunohistochemical of paraffin-embedded human gliomas using 12391-1-AP(CA8 antibody) at dilution of 1:100 (under 10x lens)



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 12391-1-AP(CA8 antibody) at dilution of 1:500



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

Background

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).

Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	IHC
Species specificity:	Human,Mouse,Rat; other species not tested.
Cited species:	Rat
Calculated CA8 MW:	290aa,32 kDa
Observed CA8 MW:	32 kDa
Positive WB detected in	Mouse skeletal muscle tissue, mouse brain tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human gliomas tissue
Recommended dilution:	WB: 1:200-1:2000
	IP: 1:500-1:5000
	IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3068
GenBank accession number:	BC015531
Gene ID (NCBI):	767
Full name:	Carbonic anhydrase VIII

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.