For Research Use Only

CA2 Polyclonal antibody

Catalog Number:16961-1-AP 10 Publications

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Basic Information

Catalog Number:
16961-1-AP

Size:
150ul , Concentration: 200 μg/ml by Nanodrop and 200 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10680

GenBank Accession Number:
BC011949

GeneID (NCBI):
760

Full Name:
carbonic anhydrase II

Calculated MW:
260 aa, 29 kDa

Observed MW:
29 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

Applications

Tested Applications:
IP, WB,ELISA

Cited Applications:
IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Positive Controls:

WB : HEK-293 cells, human stomach tissue, mouse colon tissue, mouse kidney tissue, mouse ovary tissue, rat kidney tissue, U2OS cells

IP : mouse kidney tissue,

Background Information

CA2(carbonic anhydrase II) is also named as Car2, CA-II, CAII and belongs to the alpha-carbonic anhydrase family. It reversibly hydrates CO2 in cellular ion transport and homeostasis. CA2 is essential for bone resorption and osteoclast differentiation. It regulates SLC9A1 activity via a phosphorylation-regulated CAII binding site in SLC9A1 tail(PMID:16475831). It also may be involved in the development of brain(PMID:16825953). Defects in CA2 are the cause of osteopetrosis autosomal recessive type 3 (OPTB3).

Notable Publications

Author	Pubmed ID	Journal	Application
Jeong Hee Hong	26486891	J Physiol	WB
Kalina Wiatr	34220448	Front Mol Neurosci	WB
Yanzhang Luo	28117408	Sci Rep	WB,IHC

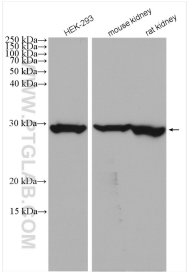
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

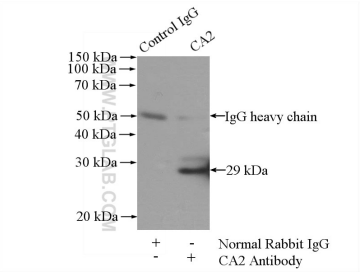
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16961-1-AP (CA2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-CA2 (IP:16961-1-AP, 4ug; Detection:16961-1-AP 1:500) with mouse kidney tissue lysate 4000ug.