

For Research Use Only

CA2 Polyclonal antibody

Catalog Number: 16961-1-AP

11 Publications



Basic Information

Catalog Number:

16961-1-AP

Size:

200 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10680

GenBank Accession Number:

BC011949

GeneID (NCBI):

760

UNIPROT ID:

P00918

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 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IHC

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 called Car2, CA-II, and CAlI 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 CAlI binding site in SLC9A1 tail(PMID:16475831). It also may be involved in brain development (PMID:16825953). Defects in CA2 cause 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

For technical support and original validation data for this product please contact:

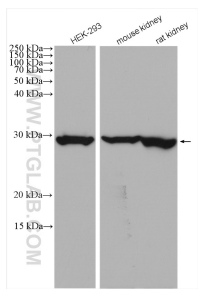
T: 4006900926

E: Proteintech-CN@ptglab.com

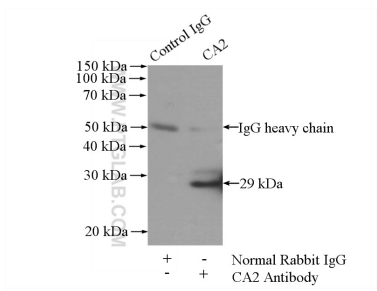
W: ptgcn.com

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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.