

For Research Use Only

# CA2 Recombinant antibody

Catalog Number: 84954-4-RR



## Basic Information

Catalog Number:

84954-4-RR

Concentration:

1000 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:

Protein A purification

CloneNo.:

242559B4

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : A431 cells, HEK-293 cells, mouse kidney tissue, rat kidney tissue, mouse ovary tissue

## Background Information

CA2(carbonic anhydrase II ) is also called Car2, CA-II, and CAII and belongs to the alpha-carbonic anhydrase family. It reversibly hydrates CO<sub>2</sub> 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 brain development (PMID:16825953). Defects in CA2 cause osteopetrosis autosomal recessive type 3 (OPTB3).

## 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:

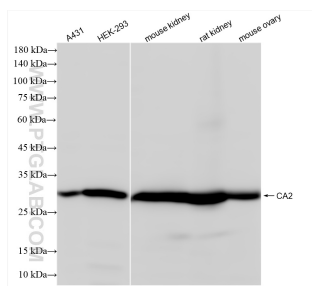
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

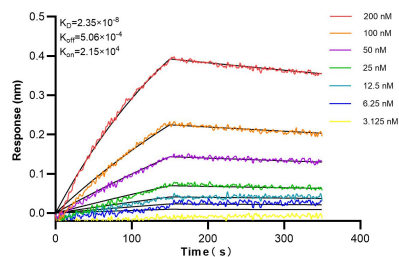
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84954-4-RR (CA2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84954-4-RR against Human CA2 were performed. The affinity constant is 23.5 nM.