For Research Use Only

CA2 Recombinant antibody

Catalog Number:84954-4-RR



Basic Information

Catalog Number: GenBank Accession Number:

84954-4-RR BC011949 GeneID (NCBI): Size:

100ul, Concentration: 1000 ug/ml by 760 Nanodrop: **UNIPROT ID:**

P00918 Rabbit Full Name:

Isotype: carbonic anhydrase II IgG Calculated MW: Immunogen Catalog Number: 260 aa, 29 kDa AG10680 Observed MW:

29 kDa

Applications

Tested Applications:

WB, ELISA

Species Specificity: human, mouse, rat

Positive Controls:

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

Purification Method:

Protein A purification

Recommended Dilutions:

WB 1:5000-1:50000

CloneNo.:

242559B4

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 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 brain development (PMID:16825953). Defects in CA2 cause osteopetrosis autosomal recessive type 3 (OPTB3).

Storage

Store at -20°C. Stable for one year after shipment.

Aliquoting is unnecessary for -20°C storage

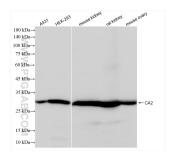
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

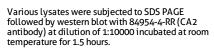
*** 20ul sizes contain 0.1% BSA

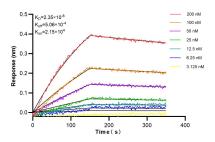
in USA), or 1(312) 455-8498 (outside USA)

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Selected Validation Data







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