

For Research Use Only

CA2 Recombinant antibody, PBS Only

Catalog Number: 84954-4-PBS



Basic Information

Catalog Number: 84954-4-PBS	GenBank Accession Number: BC011949	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 760	CloneNo.: 242559B4
Source: Rabbit	UNIPROT ID: P00918	
Isotype: IgG	Full Name: carbonic anhydrase II	
Immunogen Catalog Number: AG10680	Calculated MW: 260 aa, 29 kDa	
	Observed MW: 29 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

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

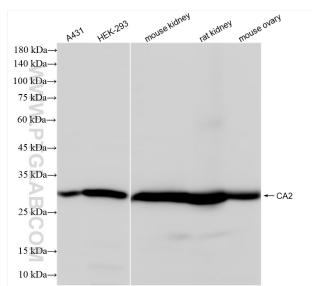
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

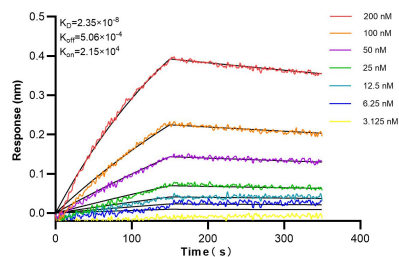
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 84954-4-PBS in a different storage buffer formulation.



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