

For Research Use Only

CA2 Polyclonal antibody, PBS Only

Catalog Number: 16961-1-PBS **1 Publications**



Basic Information

| | | |
|---|--|--|
| Catalog Number: 16961-1-PBS | GenBank Accession Number: BC011949 | Purification Method: Antigen affinity purification |
| Concentration: 1 mg/ml | GeneID (NCBI): 760 | |
| 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, IP, Indirect ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human

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).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------------|-----------|----------|-------------|
| Lavanya Choppavarapu | 40112000 | Cell Rep | WB |

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

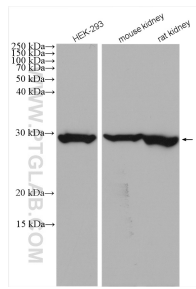
T: 4006900926

E: Proteintech-CN@ptglab.com

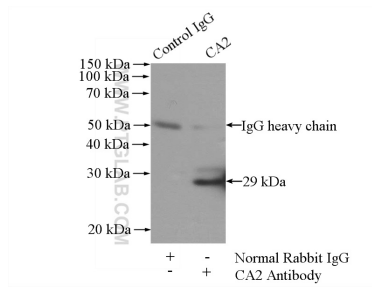
W: ptgcn.com

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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. This data was developed using the same antibody clone with 16961-1-PBS in a different storage buffer formulation.



IP result of anti-CA2 (IP:16961-1-AP, 4ug; Detection:16961-1-AP 1:500) with mouse kidney tissue lysate 4000ug. This data was developed using the same antibody clone with 16961-1-PBS in a different storage buffer formulation.