

For Research Use Only

# CA5B Polyclonal antibody

Catalog Number: 13342-1-AP

1 Publications



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>13342-1-AP   | <b>GenBank Accession Number:</b><br>BC028142              | <b>Purification Method:</b><br>Antigen affinity purification          |
| <b>Size:</b><br>150ul , Concentration: 400 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>11238                            | <b>Recommended Dilutions:</b><br>WB 1:1000-1:6000<br>IHC 1:300-1:1200 |
| <b>Source:</b><br>Rabbit   | <b>UNIPROT ID:</b><br>Q9Y2D0                              |   |
| <b>Isotype:</b><br>IgG   | <b>Full Name:</b><br>carbonic anhydrase VB, mitochondrial |   |
| <b>Immunogen Catalog Number:</b><br>AG4166   | <b>Calculated MW:</b><br>317 aa, 36 kDa                   |   |
|  | <b>Observed MW:</b><br>32 kDa                             |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>WB, IHC, ELISA  | <b>Positive Controls:</b><br>WB : mouse testis tissue,<br>IHC : human kidney tissue, |
| <b>Cited Applications:</b><br>WB   |  |
| <b>Species Specificity:</b><br>human, mouse, rat   |  |
| <b>Cited Species:</b><br>human   |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## Background Information

CA5B(Carbonic anhydrase 5B, mitochondrial) is also named as CA-VB and belongs to the alpha-carbonic anhydrase family.CA5B encodes a 317-amino acid protein that has 64% sequence similarity with CA5 (114761), a mitochondrial CA, and contains a 33-amino-acid residue signal sequence. Western blot analysis revealed a 36-kD protein precursor and a 32-kD mature protein(PMID:10409679).

## Notable Publications

| Author         | Pubmed ID | Journal     | Application |
|----------------|-----------|-------------|-------------|
| Oliva Palander | 33872598  | J Biol Chem | WB          |

## Storage

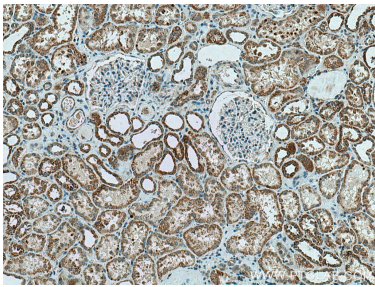
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

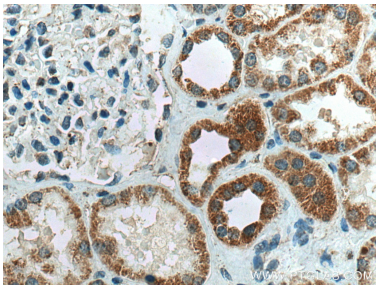
For technical support and original validation data for this product please contact:  
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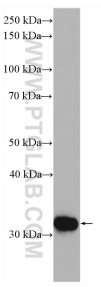
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 13342-1-AP (CA5B antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 13342-1-AP (CA5B antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse testis tissue were subjected to SDS PAGE followed by western blot with 13342-1-AP (CA5B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.