

For Research Use Only

# CA4 Recombinant antibody, PBS Only

Catalog Number:85706-1-PBS



## Basic Information

**Catalog Number:**

85706-1-PBS

**Size:**

100ug , Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4960

**GenBank Accession Number:**

BC057792

**GeneID (NCBI):**

762

**UNIPROT ID:**

P22748

**Full Name:**

carbonic anhydrase IV

**Calculated MW:**

35 kDa

**Observed MW:**

35 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

242975A3

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

CA4(Carbonic anhydrase 4) is a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary, chorionic (and certain other) capillaries and of proximal renal tubules. It plays a critical role by maintaining the pH in the outer retina, which is important for the normal function of photoreceptors. This protein belongs to the alpha-carbonic anhydrase family.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only

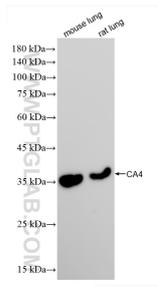
For technical support and original validation data for this product please contact:

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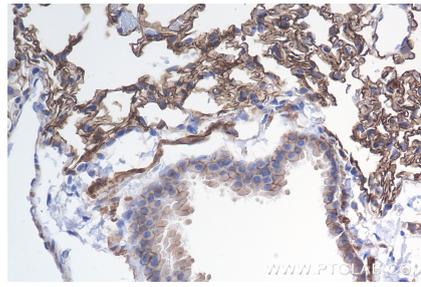
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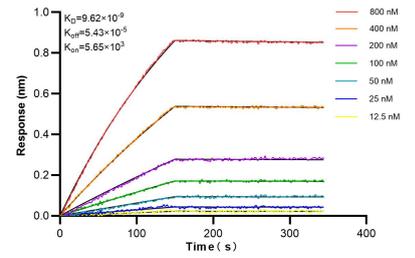
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85706-1-RR (CA4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85706-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 85706-1-RR (CA4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85706-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 85706-1-RR against Human CA4 were performed. The affinity constant is 9.62 nM.