

For Research Use Only

# CA4 Recombinant antibody

Catalog Number: 85706-1-RR



## Basic Information

<b>Catalog Number:</b> 85706-1-RR	<b>GenBank Accession Number:</b> BC057792	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 762	<b>CloneNo.:</b> 242975A3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P22748	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> carbonic anhydrase IV	
<b>Immunogen Catalog Number:</b> AG4960	<b>Calculated MW:</b> 35 kDa	
	<b>Observed MW:</b> 35 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> mouse lung tissue, rat lung tissue
	<b>IHC :</b> mouse lung tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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

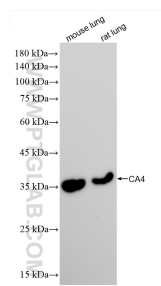
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol  
Aliquoting is unnecessary for -20°C storage

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

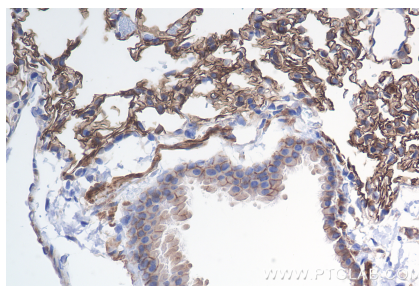
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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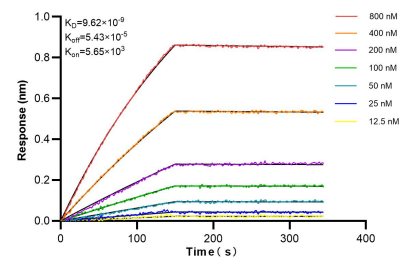
## Selected Validation Data



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.



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).



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