

For Research Use Only

CA4 Recombinant antibody

Catalog Number: 85706-1-RR



Basic Information

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

Applications

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

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

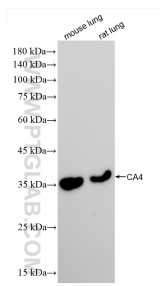
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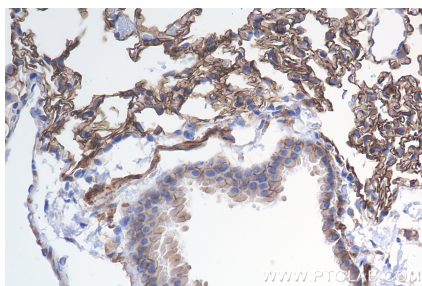
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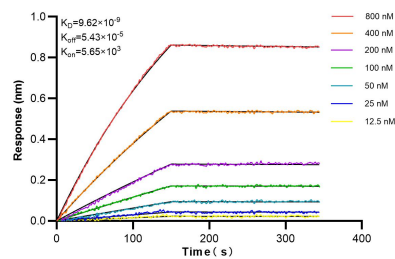
Selected Validation Data



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.



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.