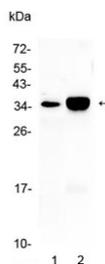


## CA4 Antibody / Carbonic anhydrase 4 (R32699)

Catalog No.	Formulation	Size
R32699	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Predicted Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
<b>UniProt</b>	P22748
<b>Applications</b>	Western Blot : 0.5-1ug/ml
<b>Limitations</b>	This CA4 antibody is available for research use only.



Western blot testing of 1) rat lung and 2) mouse lung tissue with CA4 antibody at 0.5ug/ml. Predicted molecular weight ~35 kDa.

### Description

Carbonic anhydrase 4 is an enzyme that in humans is encoded by the CA4 gene. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. This gene encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed

on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport.

## **Application Notes**

Optimal dilution of the CA4 antibody should be determined by the researcher.

## **Immunogen**

Amino acids A19-S284 from the human protein were used as the immunogen for the CA4 antibody.

## **Storage**

After reconstitution, the CA4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.