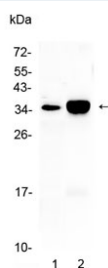


CA4 Antibody / Carbonic anhydrase 4 (R32699)

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

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Predicted Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P22748
Applications	Western Blot : 0.5-1ug/ml
Limitations	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.