

## Product datasheet for **TA346047**

### Carbonic Anhydrase IV (CA4) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CA4 antibody: synthetic peptide directed towards the middle region of human CA4. Synthetic peptide located within the following region: DGEHFAMEMHIVHEKEKGTSRNVKEAQDPEDEIAVLAFLEAGTQVNEGF
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	34 kDa
Gene Name:	carbonic anhydrase 4
Database Link:	<a href="#">NP_000708</a> <a href="#">Entrez Gene 762 Human</a> <a href="#">P22748</a>



[View online »](#)

**Background:**

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. CA IV is a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and of proximal renal tubules. Its exact function is not known, however, it may have a role in inherited renal abnormalities of bicarbonate transport.

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. CA IV is a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and of proximal renal tubules. Its exact function is not known, however, it may have a role in inherited renal abnormalities of bicarbonate transport.

**Synonyms:**

CAIV; Car4; RP17

**Note:**

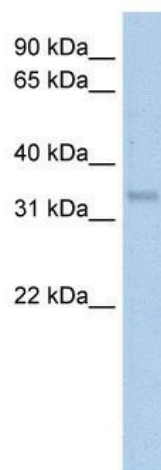
Immunogen Sequence Homology: Human: 100%

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Nitrogen metabolism

**Product images:**

WB Suggested Anti-CA4 Antibody Titration: 5.0 ug/ml; Positive Control: Human Lung