

# Anti-Carbonic Anhydrase 4 Antibody

Rabbit polyclonal antibody to Carbonic Anhydrase 4

Catalog # AP61035

## Product Information

Application	WB
Primary Accession	<a href="#">P22748</a>
Other Accession	<a href="#">Q64444</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35032

## Additional Information

Gene ID	762
Other Names	Carbonic anhydrase 4; Carbonate dehydratase IV; Carbonic anhydrase IV; CA-IV
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Carbonic Anhydrase 4. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	CA4 ( <a href="#">HGNC:1375</a> )
Function	Catalyzes the reversible hydration of carbon dioxide into bicarbonate and protons and thus is essential to maintaining intracellular and extracellular pH (PubMed: <a href="#">15563508</a> , PubMed: <a href="#">16686544</a> , PubMed: <a href="#">16807956</a> , PubMed: <a href="#">17127057</a> , PubMed: <a href="#">17314045</a> , PubMed: <a href="#">17652713</a> , PubMed: <a href="#">17705204</a> , PubMed: <a href="#">18618712</a> , PubMed: <a href="#">19186056</a> , PubMed: <a href="#">19206230</a> , PubMed: <a href="#">7625839</a> ). May stimulate the sodium/bicarbonate transporter activity of SLC4A4 that acts in pH homeostasis (PubMed: <a href="#">15563508</a> ). It is essential for acid overload removal from the retina and retina epithelium, and acid release in the choriocapillaris in the choroid (PubMed: <a href="#">15563508</a> ).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor

**Tissue Location**

Expressed in the endothelium of the choriocapillaris in eyes (at protein level).  
Not expressed in the retinal epithelium at detectable levels.

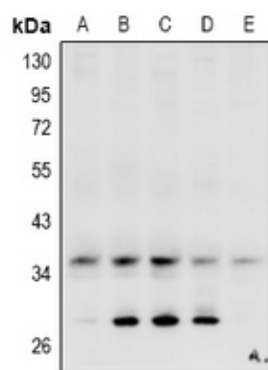
**Background**

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KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Carbonic Anhydrase 4. The exact sequence is proprietary.

**Images**

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Western blot analysis of Carbonic Anhydrase 4 expression in HEK293T (A), HepG2 (B), LO2 (C), AML12 (D), PC12 (E) whole cell lysates.

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