

Anti-Carbonic Anhydrase 4 Antibody
Rabbit polyclonal antibody to Carbonic Anhydrase 4
Catalog # AP61035

Specification

Anti-Carbonic Anhydrase 4 Antibody - Product Information

Application	WB
Primary Accession	P22748
Other Accession	Q64444
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35032

Anti-Carbonic Anhydrase 4 Antibody - 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

Anti-Carbonic Anhydrase 4 Antibody - Protein Information

Name CA4 ([HGNC:1375](#))

Function

Catalyzes the reversible hydration of carbon dioxide into bicarbonate and protons and thus is essential to maintaining intracellular and extracellular pH (PubMed:15563508, PubMed:16686544, PubMed:16807956, PubMed:17127057, PubMed:17314045, PubMed:17652713, PubMed:17705204, PubMed:18618712, PubMed:19186056, PubMed:19206230, PubMed:7625839). May stimulate the sodium/bicarbonate transporter activity of SLC4A4 that acts in pH homeostasis (PubMed:15563508). It is essential for acid overload removal from the retina and retina epithelium, and acid release in the choriocapillaris in the choroid (PubMed:15563508).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

Tissue Location

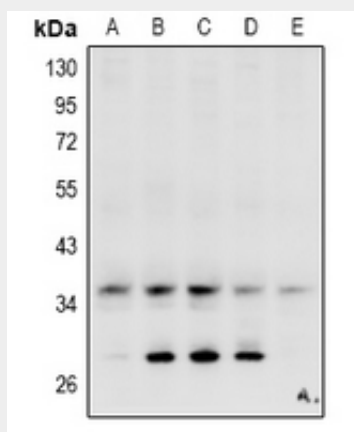
Expressed in the endothelium of the choriocapillaris in eyes (at protein level). Not expressed in the retinal epithelium at detectable levels.

Anti-Carbonic Anhydrase 4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Carbonic Anhydrase 4 Antibody - Images



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

Anti-Carbonic Anhydrase 4 Antibody - Background

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