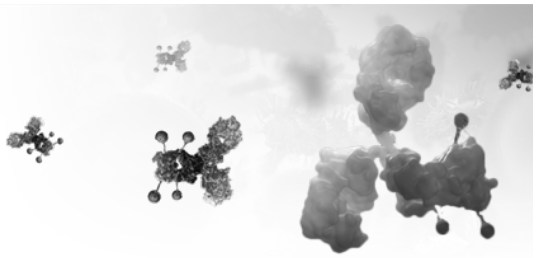

Rabbit Anti-Human Carbonic Anhydrase XIV monoclonal antibody, clone S221 (CABT-ZB746)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human Carbonic Anhydrase XIV
Target	CA14
Immunogen	Recombinant Human Carbonic Anhydrase XIV Protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	S221
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA(cap) This antibody will detect Carbonic Anhydrase XIV in antibody pair set. [ABPR-ZB326]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Carbonic Anhydrase XIV.
Format	Purified, Liquid
Concentration	Lot specific
Size	50 µL, 100 µL, 1 mL

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Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	The carbonic anhydrases (or carbonate dehydratases) are classified as metalloenzyme for its zinc ion prosthetic group and form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that takes part in maintaining acid-base balance in blood and other tissues. The carbonic anhydrasekl (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. CAXIV is a member of CA family that showed an overall similarity of 29–46% to other active CA isozymes. The highest percentage similarity was with a transmembrane CA isoform, CAXII. The CAXIV was found high concentrations in human heart, brain, liver, and skeletal muscle but lower in the colon, small intestine, urinary bladder, and kidney. No CAXIV mRNA was seen in the salivary gland and pancreas. CAXIV is a likely candidate for the extracellular CA postulated to have an important role in modulating excitatory synaptic transmission in brain.
Keywords	CA14; carbonic anhydrase XIV; carbonic anhydrase 14; CA 14

GENE INFORMATION

Synonyms	CA14; carbonic anhydrase XIV; carbonic anhydrase 14; CA 14; CA XIV; Carbonate dehydratase XIV; CAXIV; UNQ690/PRO1335; CA-XIV; carbonic dehydratase
Entrez Gene ID	23632
UniProt ID	Q8NCF4

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