



# Rabbit Anti-Mouse Carbonic Anhydrase 8/CA8 monoclonal antibody, clone S168 (CABT-ZB486)

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

## PRODUCT INFORMATION

<b>Specificity</b>	It reacts with Mouse Carbonic Anhydrase 8/CA8
<b>Target</b>	CA8
<b>Immunogen</b>	Recombinant Mouse Carbonic Anhydrase VIII/CA8 Protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	S168
<b>Purification</b>	Protein A purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB486 - CABT-ZB862 This antibody will detect Carbonic Anhydrase 8/CA8 in antibody pair set. [ABPR-ZB061]
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse Carbonic Anhydrase VIII / CA8.
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	Lot specific

<b>Size</b>	50 µL, 100 µL, 1 mL
<b>Buffer</b>	PBS
<b>Preservative</b>	None
<b>Storage</b>	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.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	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 anhydrase I (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. Carbonic anhydrase protein (CA) VIII, which is a member of the CA gene family, has been shown to have no catalytic CA activity and its biological function is still unknown. Increased expression of CA-RP VIII was observed in 78% of colorectal carcinomas. It suggested that CA-RP VIII plays a role in the process of invasion in colorectal cancer.
<b>Keywords</b>	CA8; carbonic anhydrase VIII; CALS; carbonic anhydrase-related protein

## GENE INFORMATION

<b>Synonyms</b>	CA8; carbonic anhydrase VIII; CALS; carbonic anhydrase-related protein; CARP; CA-related protein; carbonate dehydratase; carbonic anhydrase-like sequence; CAMRQ3; CA-VIII; MGC99509; MGC120502
<b>Entrez Gene ID</b>	<a href="#">12319</a>
<b>UniProt ID</b>	<a href="#">P28651</a>