



# Mouse anti-Human CA5B monoclonal antibody, clone 2F23 (CABT-B9878)

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

## PRODUCT INFORMATION

<b>Immunogen</b>	CA5B (AAH28142, 1 a.a. ~ 318 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	2F23
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	sELISA, ELISA
<b>Sequence Similarities</b>	MVVMNSLRVILQASPGKLLWRKFQIPRFMPARPCSLYTCTYKTRNRALHPLWESVDLVP GDRQSPINIRWRDSVYDPGLKPLTISYDPATCLHVWNNNGYSFLVEFEDSTDKSVIKGGPL EHNYRLKQFHFHWGAIDAWGSEHTVDSKCFPAELHLVHWNVRFENFEDAALEENGLAVI GVFLKLGKHHKELQKLVDLPSIKHKDALVEFGSFDPSCLMPTCPDYWTYSGSLTTPPLS ESVTWIIKKQPVEVD
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

## Introduction

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 VB is localized in the mitochondria and shows the highest sequence similarity to the other mitochondrial CA, CA VA. It has a wider tissue distribution than CA VA, which is restricted to the liver. The differences in tissue distribution suggest that the two mitochondrial carbonic anhydrases evolved to assume different physiologic roles. [provided by RefSeq, Jul 2008]

## Keywords

CA5B; carbonic anhydrase VB, mitochondrial; CA-VB; carbonic anhydrase 5B, mitochondrial; carbonic dehydratase; carbonate dehydratase VB;

# GENE INFORMATION

## Entrez Gene ID

[11238](#)

## UniProt ID

[Q9Y2D0](#)

## Pathway

Nitrogen metabolism, organism-specific biosystem; Nitrogen metabolism, conserved biosystem

## Function

carbonate dehydratase activity; lyase activity; metal ion binding; zinc ion binding