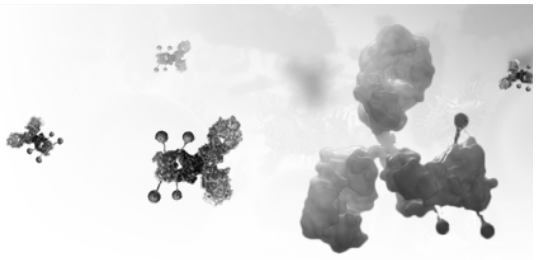

Mouse anti-Human CA4 monoclonal antibody, clone 5H7 (CABT-B9877)

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

PRODUCT INFORMATION

Immunogen	CA4 (NP_000708, 27 a.a. ~ 127 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	5H7
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	VQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRFFFSGYDKKQTWTVQNN GHSVMMLLENKASISGGGLPAPYQAKQLHLHWSDLPYKGS*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	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,

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	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. This gene encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport. [provided by RefSeq, Jul 2008]
Keywords	CA4; carbonic anhydrase IV; CAIV; Car4; RP17; carbonic anhydrase 4; CA-IV; carbonic dehydratase IV; carbonate dehydratase IV;

GENE INFORMATION

Entrez Gene ID	762
UniProt ID	Q6FHI7
Pathway	Nitrogen metabolism, organism-specific biosystem; Nitrogen metabolism, conserved biosystem; Proximal tubule bicarbonate reclamation, organism-specific biosystem; Proximal tubule bicarbonate reclamation, conserved biosystem
Function	carbonate dehydratase activity; lyase activity; metal ion binding; protein binding; zinc ion binding

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