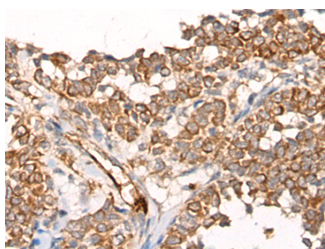


CA5B Polyclonal Antibody

Catalog No.	E-AB-17756	Reactivity	H
Storage	Store at -20°C. Avoid freeze / thaw cycles.	Host	Rabbit
Applications	IHC,ELISA	Isotype	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using CA5B Polyclonal Antibody at dilution of 1:65(×200)

Immunogen Information

Immunogen	Synthetic peptide of human CA5B
Gene Accession	NP009151
Swissprot	Q9Y2D0
Synonyms	CA VB,Carbonate dehydratase VB,Carbonic anhydrase 5B,mitochondrial,Carbonic anhydrase VB,Carbonic anhydrase VB,mitochondrial

Product Information

Buffer	PBS with 0.05% NaN ₃ and 40% Glycerol,pH7.4
Purify	Antigen affinity purification
Dilution	IHC 1:40-1:200, ELISA 1:5000-1:10000

Background

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. CA5B (Carbonic Anhydrase 5B) is a Protein Coding gene. Diseases associated with CA5B include Heart Conduction Disease and Heart Septal Defect. Among its related pathways are Nitrogen metabolism and Metabolism. GO annotations related to this gene include carbonate dehydratase activity. An important paralog of this gene is CA5A.

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Applications:WB-Western Blot IHC-Immunohistochemistry IF-Immunofluorescence IP-Immunoprecipitation FC-Flow cytometry ChIP-Chromatin Immunoprecipitation Reactivity: H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig Z-Zebrafish X-Xenopus C-Cow.