

Anti-Human/Mouse/Rat CA5B Polyclonal Antibody

Polyclonal Antibody

Cat.NO.: PA02360

3th Edition

Description: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.

Antigen:Synthesized peptide derived from the C-terminal region of human CA VB

Form:

How to use:1.0 ml distilled water will be added to the product

Stability: Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

Dilution:PBS (pH7.4) containing 1% BSA

Application:This antibody can be used for western blotting in concentration of 1?5?g/ml.

Specificity:Strongest expression in heart, pancreas, kidney, placenta, lung, and skeletal muscle. Not expressed in liver.