

Product datasheet for **TA340162**

CA5B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CA5B antibody: synthetic peptide directed towards the N terminal of human CA5B. Synthetic peptide located within the following region: WRDSVYDPGLKPLTISYDPATCLHWNNGYSLVEFEDSTDKSVIKGGPL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33 kDa
Gene Name:	carbonic anhydrase 5B
Database Link:	NP_009151 Entrez Gene 11238 Human Q9Y2D0



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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.

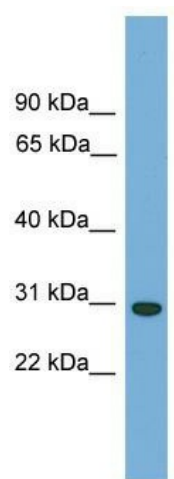
Synonyms: CA-VB

Note: Immunogen Sequence Homology: Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Dog: 92%; Bovine: 92%; Guinea pig: 92%; Sheep: 79%

Protein Families: Druggable Genome

Protein Pathways: Nitrogen metabolism

Product images:



WB Suggested Anti-CA5B Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1: 1562500; Positive Control: THP-1 cell lysate