

Carbonic Anhydrase VA Polyclonal Antibody

Catalog Number PA5-36931

Product Data Sheet

Details		Species Reactivity	
Size	100 μ l	Tested species reactivity	Human, Mouse, Rat
Host / Isotype	Rabbit IgG	Tested Applications	Dilution *
Class	Polyclonal	Immunocytochemistry (ICC)	1:50-1:200
Type	Antibody	Immunofluorescence (IF)	1:50-1:200
Immunogen	Synthetic peptide corresponding to amino acids 223-268 of human CA5A	Western Blot (WB)	1:500-1:1000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1mg/mL		
Purification	Antigen affinity chromatography		
Storage Buffer	PBS, pH 7.2		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product Specific Information

This antibody detects endogenous protein at a molecular weight of 35 kDa.

Purity is >95% by SDS-PAGE.

Background/Target Information

Carbonic anhydrases (CAs) are members of a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. CAs are involved 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 juice. They show extensive diversity in distribution and in their subcellular localization. The human CA5A gene encodes for the CA V protein which is expressed in the mitochondrial matrix in liver tissues, but can also be detected in many other tissues. In ureogenesis, the CA V protein may be involved in providing bicarbonate to carbamoyl phosphate synthetase.

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