antibodies

Datasheet for ABIN7536455 CA5A Protein (His tag)



Overview	
Quantity:	50 µg
Target:	CA5A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA5A protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human Carbonic anhydrase 5A/CA5A Protein
Sequence:	AWQTSNNTLH PLWTVPVSVP GGTRQSPINI QWRDSVYDPQ LKPLRVSYEA ASCLYIWNTG YLFQVEFDDA TEASGISGGP LENHYRLKQF HFHWGAVNEG GSEHTVDGHA YPAELHLVHW NSVKYQNYKE AVVGENGLAV IGVFLKLGAH HQTLQRLVDI LPEIKHKDAR AAMRPFDPST LLPTCWDYWT YAGSLTTPPL TESVTWIIQK EPVEVAPSQL SAFRTLLFSA LGEEEKMMVN NYRPLQPLMN RKVWASFQAT NEGTRS
Specificity:	Ala40-Ser305
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.01EU/µg
Target Details	
Target:	CA5A

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Target Details		
Alternative Name:	Carbonic anhydrase 5A/CA5A (CA5A Products)	
Background:	Description: Carbonic Anhydrase catalyzes the reversible reaction of CO2 + H2O = HCO3- + H+	
	which is fundamental to many processes such as respiration, renal tubular acidification and	
	bone resorption (1). Topics in a CA meeting (6th International Conference on the CAs, June 20	
	25, 2003, Slovakia) ranged from the use of CAs as markers for tumor and hypoxia in the clinic,	
	as a nutritional supplement in milk, and as a tool for CO2 removal and mosquito control in	
	industry. Carbonic Anhydrase VA encoded by the CA5A gene is a mitochondrial protein (2, 3). In	
	comparison with another mitochondrial CA (CA5B), CA5A has different tissue distribution and	
	chromosomal location (4, 5). Expression and inhibitor studies of different CAs in the rat	
	pancreatic beta cells indicate that CA5A may be involved in the regulation of insulin secretion	
	(6). CA5A may also participate in the detoxification of ammonia produced in the	
	gastrointestinal tract by providing bicarbonate to carbamyl phosphate synthetase I (7). The	
	amino acid sequence of recombinant human CA5A (residues 40 to 305) is 79 % , 77 %, and	
	76 % identical to that of canine, bovine, and rat/mouse.	
	Name: CA5, CAV, CAVA, CA5AD, GS1-21A4.1,CA5A	
Gene ID:	763	
UniProt:	P35218	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile	
	distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is	
	recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %	
	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.	
Concentration:	0.54 mg/mL	

Buffer:	Lyophilized from a 0.22 μm filtered solution of 50 mM NaAc,50 mM NaCl,0.05 % Brij-35, pH 5.0.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein

solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

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