For Research Use Only

ATP6V0A4 Polyclonal antibody Catalog Number: 21570-1-AP Featured Product 2 Publications

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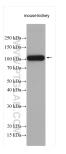
	21570-1-AP Size: 150ul , Concentration: 260 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;	BC 109305 GeneI D (NCBI): 50617 UNIPROT I D:		Antigen affinity purification Recommended Dilutions: WB 1:500-1:2000			
	Nanodrop and 187 ug/ml by Bradford						
				WB 1:500-1:2000 IHC 1:50-1:500			
		UNIPROT ID: Q9HBG4		INC 1.50-1.500			
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG16095	Full Name:					
		ATPase, H+ transporting, lysosomal VO subunit a4 Calculated MW: 840 aa, 96 kDa					
					Observed MW: 100 kDa		
					Applications	Tested Applications:	Positive Controls:
		WB, IHC, ELISA Cited Applications:	WB : mouse kidney tissue,				
WB, IHC, IF	IHC : human kidney tissue.						
Species Specificity: human, mouse							
Cited Species: human, mouse							
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen						
	The ATP6V0A4 is a component of vacuolar-H+ATPase (V-ATPase) which is a multi-subunit enzyme that couples AT hydrolysis to proton pumping across membranes. The V-ATPases are comprised of two major parts, the cytosolic V domain involved in ATP-binding and subsequent hydrolysis, and the membrane-associated V0 domain responsible for proton translocation. The V0 domain is composed of five subunits: a, c, c', c'' and d. The 'a' subunit of V0 domain has four isoforms : a1-a4. It has been found that mutations in ATP6V0A4(a4) are associated with distal renal tubula acidosis(dRTA) combined in some cases with progressive hearing loss leading to sensorineural deafness. This antibody was generated against the internal region of human ATP6V0A4 and is predicted to detect the a4 isoform only.						
Notable Publications	Author Pub	omed ID Journ	al	Application			
	Amity F Eaton 389	984989 Funct	ion (Oxf)	WB,IF			
	Jinming Xu 375	559594 Oncol	. Lett	IHC			
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	% glycerol pH 7.3.					
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20°C s	torage					

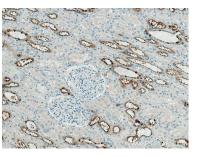
in USA), or 1(312) 455-8498 (outside USA)

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other manufacturer.

Selected Validation Data





Mouse kidney lysates were subjected to SDS PAGE followed by western blot with 21570-1-AP (ATP6V0A4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 21570-1-AP (ATP6V0A4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).