For Research Use Only

ATP1A2 Recombinant antibody

Catalog Number:84999-4-RR

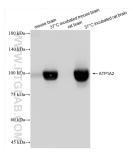


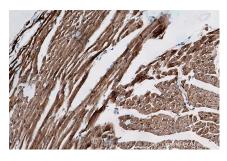
Basic Information	Catalog Number: 84999-4-RR	GenBank Accession Number: BC052271	Purification Method: Protein A purification	
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG10489	GeneID (NCBI): 477	CloneNo.: 242414G12	
		UNIPROT ID: P50993 Full Name:	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800	
		ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide Calculated MW: 1020 aa, 112 kDa		
				Observed MW: 97-100 kDa
		Applications	Tested Applications:	Positive Controls:
WB, IHC, ELISA Species Specificity:			WB : 37°C incubated mouse brain tissue, 37°C incubated rat brain tissue	
human, mouse, rat			nouse heart tissue,	
Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	ely, antigen			
Background Information	ATP1A2 (Na+/K+-ATPase a-2 subunit) is the catalytic component of the active enzyme Na+/K+-ATPase, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. The Na+/K+-ATPase is composed of a larger catalytic a-subunit (-110 kDa) and a small β -subunit (-55 kDa). The a subunit has four isoforms identified to date: a1, a2, a3 and a4. The a1 isoform is expressed ubiquitously but the a2 isoform is present largely in the skeletal muscle, heart and vascular smooth muscle. The a3 isoform is found almost exclusively in neurons and ovaries. The a4 isoform is expressed in sperm. For optimal WB detection with ATP1A2, we do not recommend boiling the sample after lysis.			
	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.			
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For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

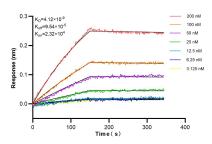
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 84999-4-RR (ATP1A2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 84999-4-RR (ATP1A2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84999-4-RR against Human ATP1A2 were performed. The affinity constant is 4.12 nM.