

For Research Use Only

ATP1A2 Recombinant antibody, PBS Only

Catalog Number: 84999-4-PBS



Basic Information

Catalog Number: 84999-4-PBS	GenBank Accession Number: BC052271	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 477	CloneNo.: 242414G12
Source: Rabbit	UNIPROT ID: P50993	
Isotype: IgG	Full Name: ATPase, Na ⁺ /K ⁺ transporting, alpha 2 (+) polypeptide	
Immunogen Catalog Number: AG10489	Calculated MW: 1020 aa, 112 kDa	
	Observed MW: 97-100 kDa	

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

ATP1A2 (Na⁺/K⁺-ATPase α -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 α -subunit (~110 kDa) and a small β -subunit (~55 kDa). The α -subunit has four isoforms identified to date: α 1, α 2, α 3 and α 4. The α 1 isoform is expressed ubiquitously but the α 2 isoform is present largely in the skeletal muscle, heart and vascular smooth muscle. The α 3 isoform is found almost exclusively in neurons and ovaries. The α 4 isoform is expressed in sperm. For optimal WB detection with ATP1A2, we do not recommend boiling the sample after lysis.

Storage

Storage:
Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

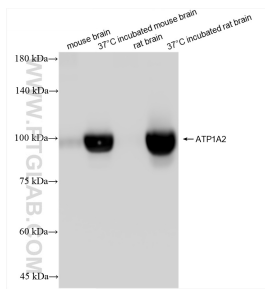
T: 4006900926

E: Proteintech-CN@ptglab.com

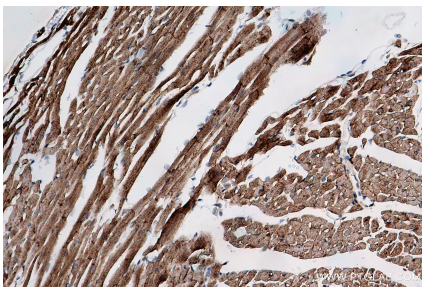
W: ptgcn.com

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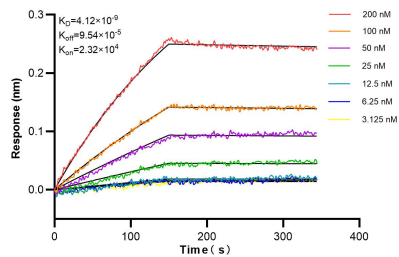
Selected Validation Data



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. This data was developed using the same antibody clone with 84999-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded 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). This data was developed using the same antibody clone with 84999-4-PBS in a different storage buffer formulation.



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