

For Research Use Only

ATP1A1/2 Monoclonal antibody

Catalog Number: 68505-1-Ig



Basic Information

Catalog Number: 68505-1-Ig	GenBank Accession Number: BC052271	Purification Method: Protein G purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 477	CloneNo.: 3D8G1
Source: Mouse	Full Name: ATPase, Na ⁺ /K ⁺ transporting, alpha 2 (+) polypeptide	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG1	Calculated MW: 1020 aa, 112 kDa	
Immunogen Catalog Number: AG10489	Observed MW: 97-100 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, mouse, rat, pig

Positive Controls:

WB : rat brain tissue, SK-BR-3 cells, rat kidney tissue, pig brain tissue, mouse brain tissue

Background Information

ATP1A1/2 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. This antibody can recognize ATP1A1 and ATP1A2.

Storage

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.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

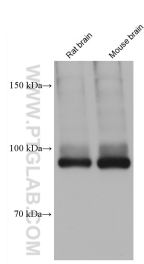
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

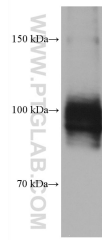
E: proteintech@ptglab.com
W: ptglab.com

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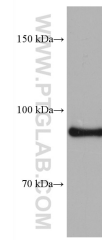
Selected Validation Data



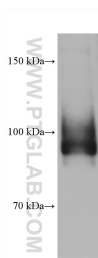
Various lysates were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



SK-BR-3 cells were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



rat kidney tissue were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



pig brain tissue were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.