For Research Use Only

ATP1A1/2 Monoclonal antibody, PBS Only



Catalog Number: 68505-1-PBS

Basic Information

Catalog Number:

GenBank Accession Number:

Purification Method:

68505-1-PBS

BC052271 GeneID (NCBI): Protein A purification

100ug, Concentration: 1mg/ml by

CloneNo.: 3D8G1

Nanodrop:

UNIPROT ID: P50993 Full Name:

Mouse Isotype:

ATPase, Na+/K+ transporting, alpha 2

lgG1 Immunogen Catalog Number: (+) polypeptide Calculated MW:

AG10489

1020 aa, 112 kDa

Observed MW: 97-100 kDa

Applications

Tested Applications:

WB, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat, pig

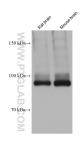
Background Information

ATP1A1/2 is the catalytic component of the active enzyme Na+/K+-ATPase, which catalyzes the hydrolysis of ATP $coupled \ with \ the \ exchange \ of sodium \ and \ potassium \ ions \ across \ the \ plasma \ membrane. \ The \ Na+/K+-ATP ase \ is$ 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: 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. This antibody can recognize ATP1A1 and ATP1A2.

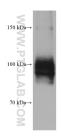
Storage

Storage: Store at -80°C. Storage Buffer: PBS Only

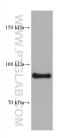
Selected Validation Data



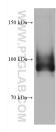
Various lysates were subjected to SDS PAGE followed by western blot with 68505-1-lg (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68505-1-PBS in a different storage buffer formulation.



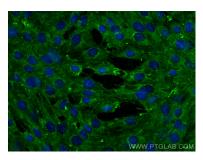
SK-BR-3 cells were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68505-1-PBS in a different storage buffer formulation.



rat kidney tissue were subjected to SDS PAGE followed by western blot with 68505-1-1g (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68505-1-PBS in a different storage buffer formulation.



pig brain tissue were subjected to SDS PAGE followed by western blot with 68505-1-lg (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68505-1-PBS in a different storage buffer



Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using ATP1A1/2 antibody (68505-1-lg, Clone: 3D8G1) at dilution of 1:1000 and Coralite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 68505-1-PBS in a different storage buffer formulation.