## For Research Use Only

## ATP1A1/2 Monoclonal antibody

Size: 500 μg/ml

Catalog Number: 68505-1-Ig



**Basic Information** 

Catalog Number: GenBank Accession Number: 68505-1-lg BC052271

Protein G purification GeneID (NCBI): CloneNo.: 3D8G1

**UNIPROT ID:** Recommended Dilutions: Source: Mouse P50993 WB 1:5000-1:50000

Full Name: Isotype:

lgG1 ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide

AG10489 Calculated MW: 1020 aa, 112 kDa

Observed MW: 97-100 kDa

**Applications** 

**Tested Applications:** WB, ELISA

Immunogen Catalog Number:

Species Specificity: Human, mouse, rat, pig Positive Controls:

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

**Purification Method:** 

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+-ATP as eigenvalues are also as a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane. The Na+/K+-ATP are in the plasma membrane in the plasma membrane is a simple of the plasma membrane. The Na+/K+-ATP are in the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane is a simple of the plasma membrane in the plasma membrane incomposed of a larger catalytic  $\,^{\alpha}$  -subunit (~110 kDa) and a small  $\,^{\beta}$  -subunit (~55 kDa). The  $\,^{\alpha}$  subunit has four isoforms identified to date:  $\alpha$  1,  $\alpha$  2,  $\alpha$  3 and  $\alpha$  4.The  $\alpha$  1 isoform is expressed ubiquitously but the  $\alpha$  2 isoform is present largely in the skeletal muscle, heart and vascular smooth muscle. The a 3 isoform is found almost exclusively in neurons and ovaries. The  $\,^{
m q}$  4 isoform is expressed in sperm. This antibody can recognize ATP1A1 and ATP1A2.

Storage

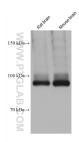
Storage:

Store at -20°C. Stable for one year after shipment.

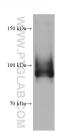
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

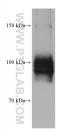
## **Selected Validation Data**



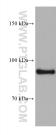
Various lysates were subjected to SDS PAGE followed by western blot with 68505-1-1g (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



pig brain 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.



SK-BR-3 cells 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.



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.