For Research Use Only

ATP1A1/2 Monoclonal antibody

Catalog Number:68505-1-Ig

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Basic Information

Catalog Number:
68505-1-Ig

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG10489

GenBank Accession Number:
BC052271

GeneID (NCBI):
477

UNIPROT ID:
P50993

Full Name:
ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide

Calculated MW:
1020 aa, 112 kDa

Observed MW:
97-100 kDa

Purification Method:
Protein G purification

CloneNo.:
3D8G1

Recommended Dilutions:
WB 1:5000-1:50000
IF/ICC 1:500-1:2000

Applications

Tested Applications:
WB, IF/ICC, 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

IF/ICC : C2C12 cells, HEK-293 cells

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: α1, α2, α3 and α4.The α1 isoform is expressed ubiquitously but the α2 isoform is present largely in the skeletal muscle, heart and vascular smooth muscle. The α3 isoform is found almost exclusively in neurons and ovaries. The α4 isoform is expressed in sperm. This antibody can recognize ATP1A1 and ATP1A2.

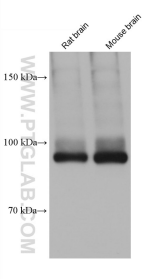
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

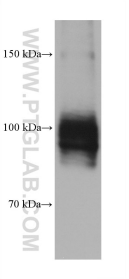
***** 20ul sizes contain 0.1%BSA**

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

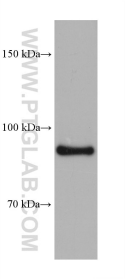
Selected Validation Data



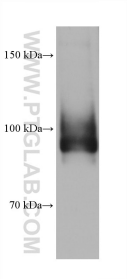
Various lysates were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



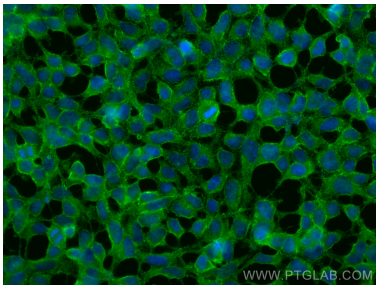
SK-BR-3 cells were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



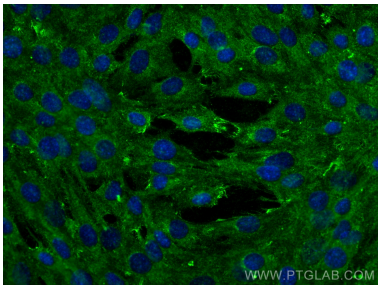
rat kidney tissue were subjected to SDS PAGE followed by western blot with 68505-1-Ig (ATP1A1/2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ATP1A1/2 antibody (68505-1-Ig, Clone: 3D8G1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using ATP1A1/2 antibody (68505-1-Ig, Clone: 3D8G1) at dilution of 1:450 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).