

For Research Use Only

# ATP1B1 Polyclonal antibody

Catalog Number: 15192-1-AP

12 Publications



## Basic Information

### Catalog Number:

15192-1-AP

### Size:

450 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7279

### GenBank Accession Number:

BC000006

### GeneID (NCBI):

481

### UNIPROT ID:

P05026

### Full Name:

ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, beta 1 polypeptide

### Calculated MW:

35 kDa

### Observed MW:

45-52 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : mouse brain tissue, human heart tissue, human brain tissue, mouse heart tissue

**IP** : mouse brain tissue,

**IHC** : human brain tissue, human skeletal muscle tissue

**IF/ICC** : HEK-293 cells,

## Background Information

ATP1B1 is one of beta subunits of the Na<sup>+</sup>/K<sup>+</sup> ATPase and responsible for formation and structural integrity of the Na<sup>+</sup>/K<sup>+</sup> ATPase. The Na<sup>+</sup>/K<sup>+</sup> ATPase is a plasma membrane pump consisting of alpha, beta, and gamma subunits. At least four of Na<sup>+</sup>/K<sup>+</sup>-ATPase beta subunits (β 1, β 2, β 3, β 4) have been identified in mammalian cells; the β 1-subunit (ATP1B1) is the most ubiquitous. The Na<sup>+</sup>/K<sup>+</sup> ATPase β subunits have multiple N-glycosylation sites. The predicted MW of ATP1B1 is 35 kDa, while it migrates around 40-52 kDa due to the variable glycosylation. (PMID: 10896885, 17714085)

## Notable Publications

Author	Pubmed ID	Journal	Application
Akihito Morinaga	31717392	Int J Mol Sci	WB
Wei Cao	34011520	J Immunol	IF, WB
Karolina Plössl	31048931	PLoS One	

## 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

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

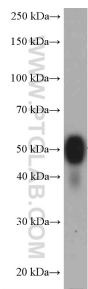
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

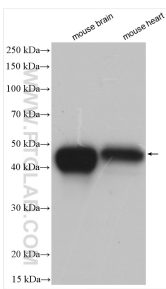
W: [ptgcn.com](http://ptgcn.com)

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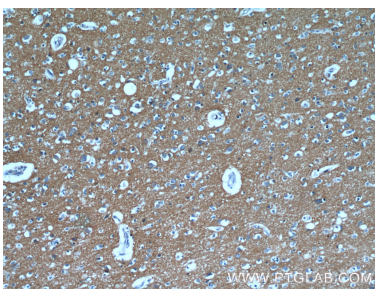
Selected Validation Data



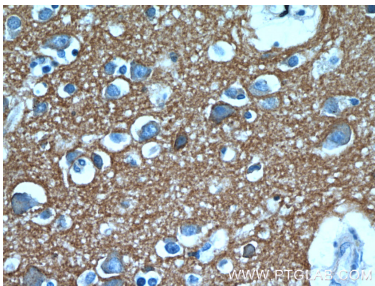
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



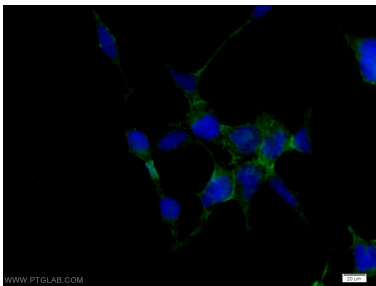
Various lysates were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



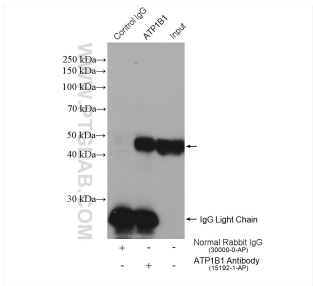
Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 15192-1-AP (ATP1B1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-ATP1B1 (IP:15192-1-AP, 4ug; Detection:15192-1-AP 1:2000) with mouse brain tissue lysate 1600 ug.