

For Research Use Only

# ATP1B1 Polyclonal antibody

Catalog Number: 15192-1-AP **10 Publications**



## Basic Information

<b>Catalog Number:</b> 15192-1-AP	<b>GenBank Accession Number:</b> BC000006	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 450 µg/ml	<b>GeneID (NCBI):</b> 481	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05026	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 1 polypeptide	IHC 1:20-1:200
<b>Immunogen Catalog Number:</b> AG7279	<b>Calculated MW:</b> 35 kDa	IF 1:10-1:100
	<b>Observed MW:</b> 49-52 kDa	

## Applications

**Tested Applications:**  
FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, rat, mouse

**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:** 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:

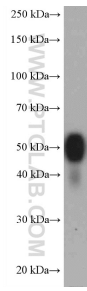
T: 4006900926

E: Proteintech-CN@ptglab.com

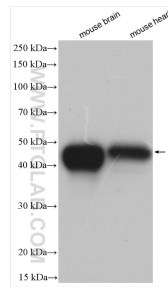
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

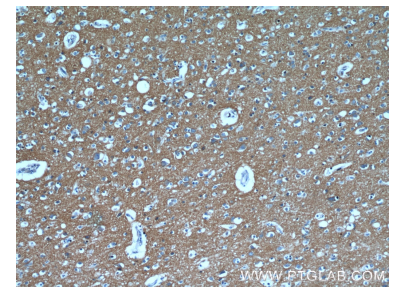
## Selected Validation Data



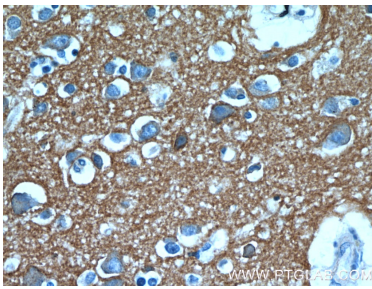
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



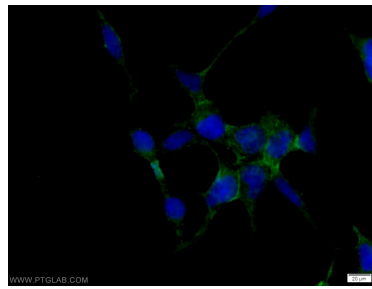
Various lysates were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



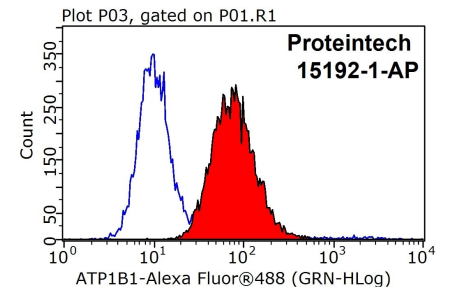
Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 10x lens).



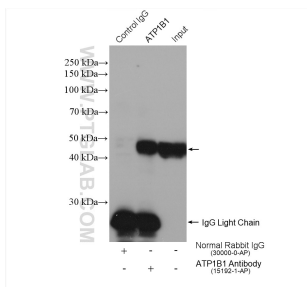
Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 40x lens).



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).



$1 \times 10^6$  HEK-293 cells were stained with 0.2ug ATP1B1 antibody (15192-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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