For Research Use Only

ATP1B1 Polyclonal antibody

Catalog Number:15192-1-AP 12 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
15192-1-AP

Size:
150ul , Concentration: 450 ug/ml by Nanodrop and 273 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7279

GenBank Accession Number:
BC000006

GeneID (NCBI):
481

UNIPROT ID:
P05026

Full Name:
ATPase, Na+/K+ 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+/K+ ATPase and responsible for formation and structural integrity of the Na+/K+ ATPase. The Na+/K+ ATPase is a plasma membrane pump consisting of alpha, beta, and gamma subunits. At least four of Na+/K+-ATPase beta subunits (β1, β2, β3, β4) have been identified in mammalian cells; the β1-subunit (ATP1B1) is the most ubiquitous. The Na+/K+ 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	

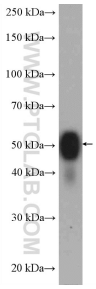
Storage

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

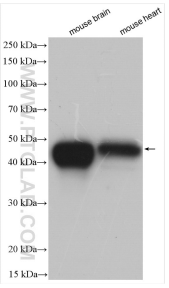
*** 20ul sizes contain 0.1% BSA

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

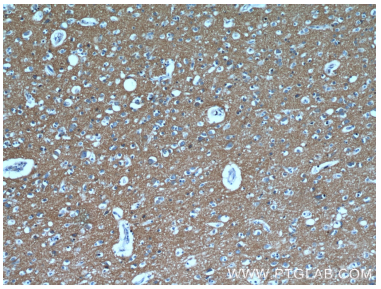
Selected Validation Data



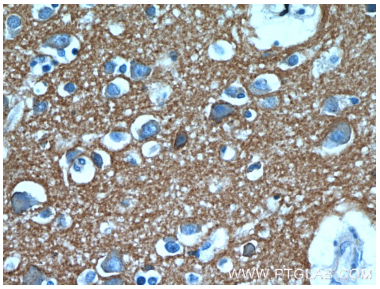
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



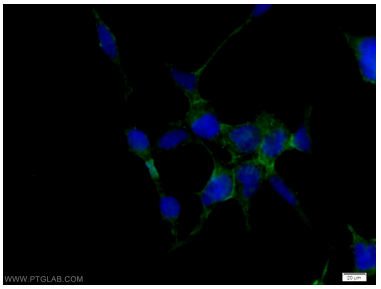
Various lysates were subjected to SDS PAGE followed by western blot with 15192-1-AP (ATP1B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



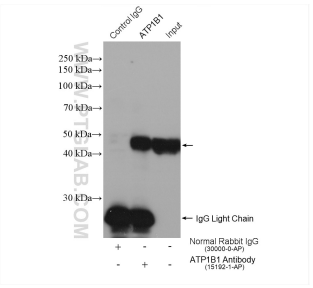
Immunohistochemical analysis of paraffin-embedded human brain using 15192-1-AP (ATP1B1 antibody) at dilution of 1:50 (under 10x lens).



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.