

For Research Use Only

# ATP1B2 Polyclonal antibody

Catalog Number: 22338-1-AP

12 Publications



## Basic Information

### Catalog Number:

22338-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG17818

### GenBank Accession Number:

BC126175

### GeneID (NCBI):

482

### UNIPROT ID:

P14415

### Full Name:

ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, beta 2 polypeptide

### Calculated MW:

290 aa, 33 kDa

### Observed MW:

45-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:20-1:200

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, IP, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: mouse brain tissue, mouse skeletal muscle tissue, C6 cells, C2C12 cells

IP: mouse skeletal muscle tissue,

IHC: human brain tissue,

IF-P: mouse brain tissue,

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

## Background Information

ATP1B2 is the  $\beta 2$  subunit of Na<sup>+</sup>/K<sup>+</sup>-ATPase which is an essential membrane-bound enzyme responsible for the transport of Na<sup>+</sup> and K<sup>+</sup> in most eukaryotic cells. ATP1B2 is also called the adhesion molecule on glia (AMOG) and it is highly expressed in normal glia. It is a heavily glycosylated protein that plays a role in cellular adhesion in the CNS. Recently differential expression of ATP1B2 has been found in some glioneuronal tumors (PMID: 23887941, 19371356). This antibody recognizes the endogenous ATP1B2 protein in human brain. The bands between 45 kDa and 65 kDa represent the glycosylated forms of ATP1B2 in different levels (PMID: 8918259).

## Notable Publications

Author	Pubmed ID	Journal	Application
Bo Pan	36261079	Neurosci Lett	WB
Shen Liu	33144554	Med Sci Monit	WB
Danny Christiansen	29745801	J Appl Physiol (1985)	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

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

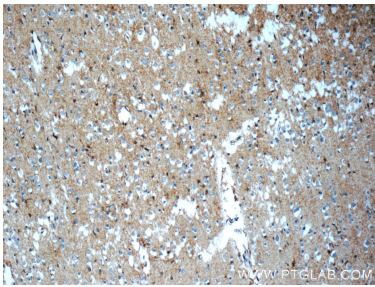
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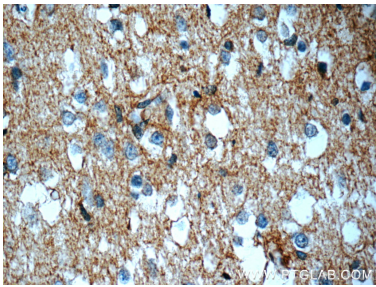
E: proteintech@ptglab.com  
W: ptglab.com

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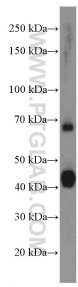
Selected Validation Data



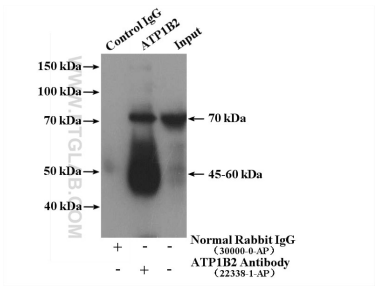
Immunohistochemical analysis of paraffin-embedded human brain slide using 22338-1-AP (ATP1B2 Antibody) at dilution of 1:50.



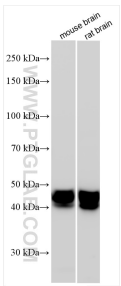
Immunohistochemical analysis of paraffin-embedded human brain slide using 22338-1-AP (ATP1B2 Antibody) at dilution of 1:50.



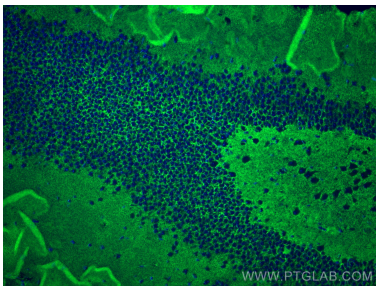
mouse brain tissue were subjected to SDS PAGE followed by western blot with 22338-1-AP (ATP1B2 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-ATP1B2 (IP:22338-1-AP, 4ug; Detection:22338-1-AP 1:1000) with mouse skeletal muscle tissue lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 22338-1-AP (ATP1B2 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using ATP1B2 antibody (22338-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).