

# ATP1B2 Polyclonal antibody

Catalog Number: 22338-1-AP

10 Publications

## Basic Information

## Catalog Number:

22338-1-AP

## Size:

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

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG17818

## GenBank Accession Number:

BC126175

## GeneID (NCBI):

482

## 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 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000

for WB

IHC 1:20-1:200

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Cited Applications:

IF, WB

## Species Specificity:

human, mouse, rat

## 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 brain tissue, C2C12 cell, C6 cells, mouse skeletal muscle tissue

IP: mouse skeletal muscle tissue,

IHC: human brain tissue,

## Background Information

ATP1B2 is the β2 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

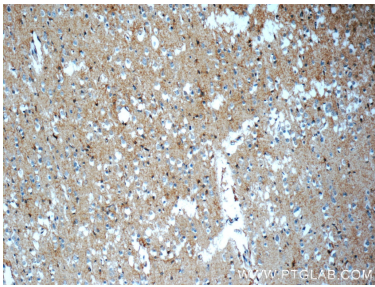
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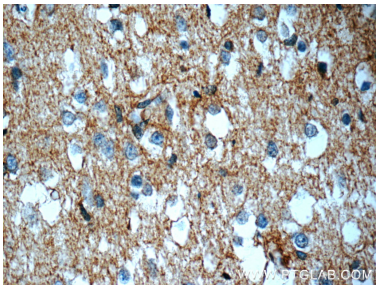
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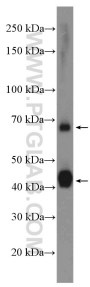
Selected Validation Data



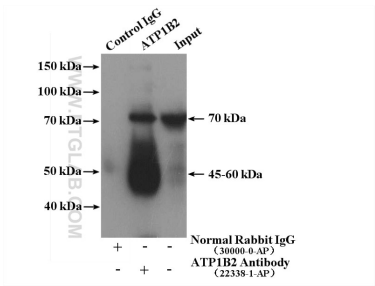
Immunohistochemical analysis of paraffin-embedded human brain slide using 22338-1-AP (ATP1B2 Antibody) at dilution of 1:50.



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.