

# ATP1B2 Recombinant monoclonal antibody

Catalog Number: 88109-1-RR

## Basic Information

|                                                                |                                                                                               |                                                                         |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>88109-1-RR                           | <b>GenBank Accession Number:</b><br>NM_001678.4                                               | <b>Purification Method:</b><br>Protein A purification                   |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>482                                                                  | <b>CloneNo.:</b><br>260382A9                                            |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P14415                                                                  | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000<br>IF-P: 1:50-1:500 |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 2 polypeptide |                                                                         |
| <b>Immunogen Catalog Number:</b><br>EG6094                     | <b>Calculated MW:</b><br>33 kDa                                                               |                                                                         |
|                                                                | <b>Observed MW:</b><br>45-65 kDa                                                              |                                                                         |

## Applications

|                                                  |                                                                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IF-P, ELISA   | <b>Positive Controls:</b>                                                                                       |
| <b>Species Specificity:</b><br>human, mouse, rat | <b>WB :</b> mouse brain tissue, rat brain tissue, fetal human brain tissue<br><b>IF-P :</b> mouse brain tissue, |

## 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).

## Storage

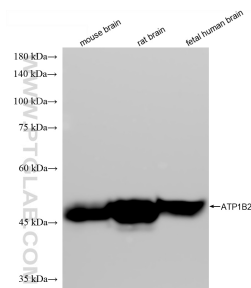
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

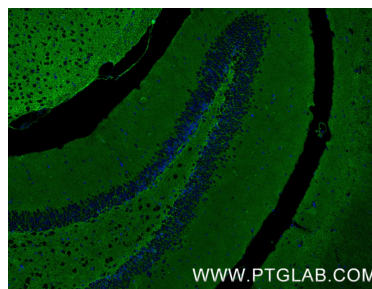
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88109-1-RR (ATP1B2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using ATP1B2 antibody (88109-1-RR, Clone: 260382A9) 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).