

For Research Use Only

# ATP2B1 Recombinant antibody

Catalog Number:83827-3-RR



## Basic Information

<b>Catalog Number:</b> 83827-3-RR	<b>GenBank Accession Number:</b> NM_001001323.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 490	<b>CloneNo.:</b> 240848D10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20020	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> ATPase, Ca <sup>++</sup> transporting, plasma membrane 1	
<b>Immunogen Catalog Number:</b> AG32423	<b>Calculated MW:</b> 135 kDa	
	<b>Observed MW:</b> 130 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, 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 : unboiled mouse brain tissue,

IHC : mouse small intestine tissue,

## Background Information

ATPase plasma membrane Ca<sup>2+</sup> transporting 1 (ATP2B1, also known as plasma membrane Ca<sup>2+</sup> pump isoform 1; PMCA1) belongs to the family of ATP-driven calmodulin-dependent Ca<sup>2+</sup> pumps that participate in the regulation of intracellular free Ca<sup>2+</sup> (PMID:35358416). The ATP2B1 contents of extracellular vesicles are increased in prostate cancer treated with enzalutamide and are negatively regulated by androgen receptors (PMID:29105980). ATP2B1 plays an important role in the prognosis of cholangiocarcinoma. Furthermore, ATP2B1 plays an important role in the prognosis of cholangiocarcinoma and can be a prognostic factor for cholangiocarcinoma (PMID:35875160).

## 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

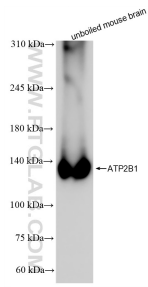
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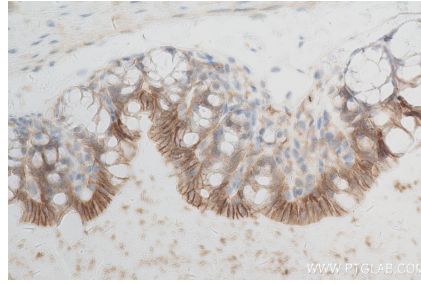
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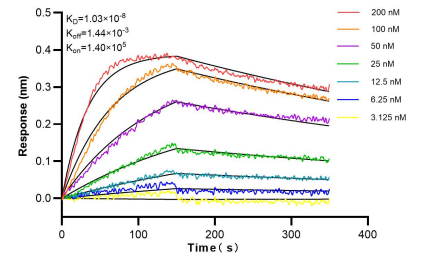
## Selected Validation Data



unboiled mouse brain tissue were subjected to SDS PAGE followed by western blot with 83827-3-RR (ATP2B1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 83827-3-RR (ATP2B1 antibody) at dilution of 1:0 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 83827-3-RR against Human ATP2B1 were performed. The affinity constant is 10.3 nM.