

# ATP6V1B1 Recombinant antibody

Catalog Number: 83953-5-RR

## Basic Information

<b>Catalog Number:</b> 83953-5-RR	<b>GenBank Accession Number:</b> BC063411	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 525	<b>CloneNo.:</b> 240955B9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P15313	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:300-1:1200
<b>Isotype:</b> IgG	<b>Full Name:</b> ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B1	
<b>Immunogen Catalog Number:</b> AG6332	<b>Calculated MW:</b> 57 kDa	
	<b>Observed MW:</b> 56 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

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, rat brain tissue, mouse kidney  
tissue, rat kidney tissue

**IHC :** rat kidney tissue, mouse kidney tissue

## Background Information

ATP6V1B1, also named ATP6B1, VATB and VPP3, belongs to the ATPase alpha/beta chains family. ATP6V1B1 is mainly expressed in kidney. ATP6V1B1 is essential for the proper assembly and activity of V-ATPase. In renal intercalated cells, ATP6V1B1 mediates secretion of protons (H<sup>+</sup>) into the urine thereby ensuring correct urinary acidification. The calculated molecular weight of ATP6V1B1 is 57 kDa.

## Storage

### Storage:

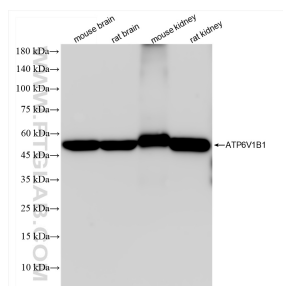
Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

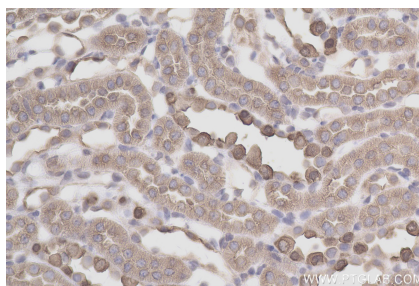
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83953-5-RR (ATP6V1B1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 83953-5-RR (ATP6V1B1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).