

For Research Use Only

# ATP1B3 Monoclonal antibody

Catalog Number: 67554-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 67554-1-Ig	<b>GenBank Accession Number:</b> BC011835	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1600 ug/ml by Nanodrop and 727 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 483	<b>CloneNo.:</b> 1H9C1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P54709	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:500-1:2000 IF/ICC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Full Name:</b> ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide	
<b>Immunogen Catalog Number:</b> AG30127	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 38-43 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Cited Applications:**  
IHC

**Species Specificity:**  
human

**Cited Species:**  
human

**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:** Jurkat cells, HeLa cells, HepG2 cells, human placenta tissue, THP-1 cells

**IHC:** human colon tissue, human lung cancer tissue

**IF/ICC:** A431 cells,

## Background Information

ATP1B3 (also known as CD298) is the  $\beta 3$  subunit of Na<sup>+</sup>/K<sup>+</sup>-ATPase which functions to maintain sodium and potassium gradients across membranes involved in cellular activities. ATP1B3 is a glycosylated protein and there are fully and intermediately glycosylated forms of ATP1B3 in mammalian cells. The predicted MW of ATP1B3 is around 32 kDa, while various forms (38-43 kDa) can be observed due to the different level of glycosylation (PMID: 30792309, 16339171, 17176442).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shanshan Lu	33868261	Front Immunol	IHC

## 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

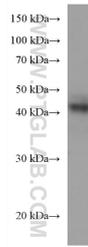
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

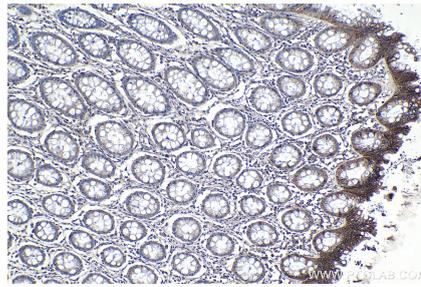
E: proteintech@ptglab.com  
W: ptglab.com

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

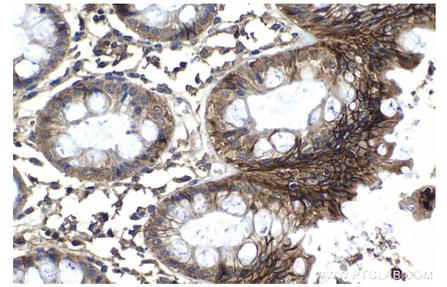
## Selected Validation Data



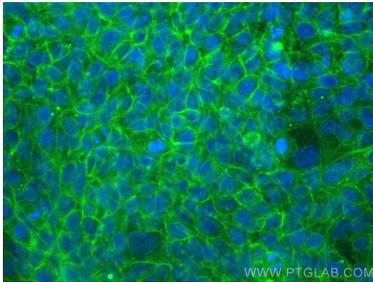
Jurkat cells were subjected to SDS PAGE followed by western blot with 67554-1-Ig (ATP1B3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67554-1-Ig (ATP1B3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67554-1-Ig (ATP1B3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using ATP1B3 antibody (67554-1-Ig, Clone: 1H9C1) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).