

For Research Use Only

# ATP1B3 Monoclonal antibody

Catalog Number: 67554-1-Ig **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: 727 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 483	<b>CloneNo.:</b> 1H9C1
<b>Source:</b> Mouse	<b>Full Name:</b> ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 32 kDa	
<b>Immunogen Catalog Number:</b> AG30127	<b>Observed MW:</b> 38-43 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HeLa cells, HepG2 cells, human placenta tissue, THP-1 cells IHC : human liver cancer tissue,
<b>Cited Applications:</b> IHC	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

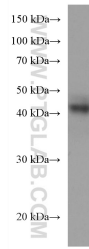
## Storage

**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

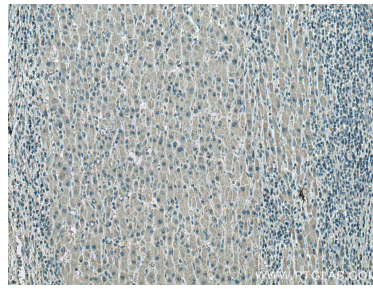
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## Selected Validation Data



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 liver cancer tissue slide using 67554-1-Ig (ATP1B3 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).