

For Research Use Only

ATP1B3 Monoclonal antibody

Catalog Number: 67554-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

67554-1-Ig

Size:

150ul, Concentration: 1600 ug/ml by Nanodrop and 727 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG30127

GenBank Accession Number:

BC011835

GeneID (NCBI):

483

UNIPROT ID:

P54709

Full Name:

ATPase, Na⁺/K⁺ transporting, beta 3 polypeptide

Calculated MW:

32 kDa

Observed MW:

38-43 kDa

Purification Method:

Protein A purification

CloneNo.:

1H9C1

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:500-1:2000

IF/ICC 1:500-1:2000

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⁺/K⁺-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

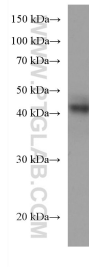
For technical support and original validation data for this product please contact:

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

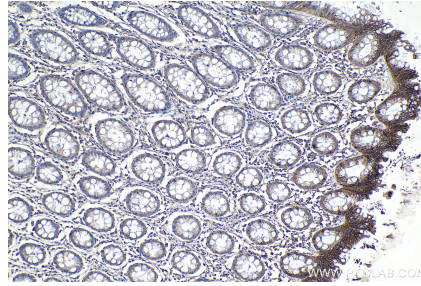
E: proteintech@ptglab.com
W: ptglab.com

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

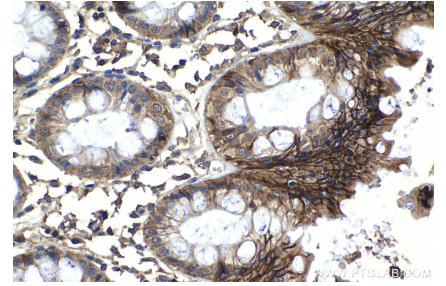
Selected Validation Data



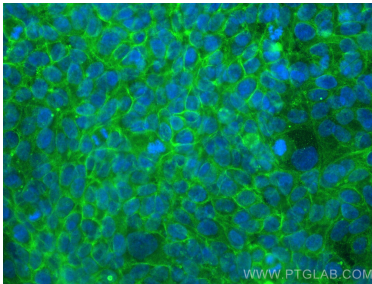
Jurkat cells were subjected to SDS PAGE followed by western blot with 67554-1-Ig (ATP1B3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).