

For Research Use Only

ATP6V0A4 Polyclonal antibody

Catalog Number: 21570-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

21570-1-AP

Size:

260 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16095

GenBank Accession Number:

BC109305

GeneID (NCBI):

50617

UNIPROT ID:

Q9HBG4

Full Name:

ATPase, H⁺ transporting, lysosomal
V0 subunit a4

Calculated MW:

840 aa, 96 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB: mouse kidney tissue,

IHC: human kidney tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The ATP6V0A4 is a component of vacuolar-H⁺ATPase (V-ATPase) which is a multi-subunit enzyme that couples ATP hydrolysis to proton pumping across membranes. The V-ATPases are comprised of two major parts, the cytosolic V1 domain involved in ATP-binding and subsequent hydrolysis, and the membrane-associated V0 domain responsible for proton translocation. The V0 domain is composed of five subunits: a, c, c', c'' and d. The 'a' subunit of V0 domain has four isoforms: a1-a4. It has been found that mutations in ATP6V0A4(a4) are associated with distal renal tubular acidosis (dRTA) combined in some cases with progressive hearing loss leading to sensorineural deafness. This antibody was generated against the internal region of human ATP6V0A4 and is predicted to detect the a4 isoform only.

Notable Publications

Author	Pubmed ID	Journal	Application
Amity F Eaton	38984989	Function (Oxf)	WB, IF
Jinming Xu	37559594	Oncol Lett	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

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

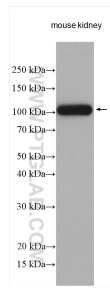
T: 4006900926

E: Proteintech-CN@ptglab.com

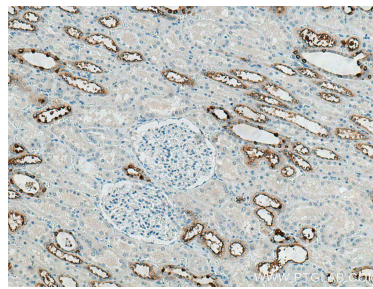
W: ptgcn.com

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Selected Validation Data



Mouse kidney lysates were subjected to SDS PAGE followed by western blot with 21570-1-AP (ATP6V0A4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 21570-1-AP (ATP6V0A4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).