

For Research Use Only

ATP6V0A4 Polyclonal antibody, PBS Only

Catalog Number: 21570-1-PBS

Featured Product



Basic Information

Catalog Number:

21570-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16095

GenBank Accession Number:

BC109305

GeneID (NCBI):

50617

UNIPROT ID:

Q9H8G4

Full Name:

ATPase, H⁺ transporting, lysosomal
V0 subunit a4

Calculated MW:

840 aa, 96 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF-P, Indirect ELISA

Species Specificity:

human, mouse

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.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

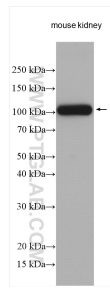
T: 4006900926

E: Proteintech-CN@ptglab.com

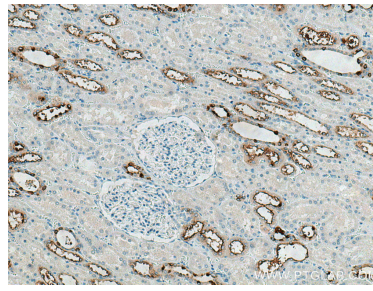
W: ptgcn.com

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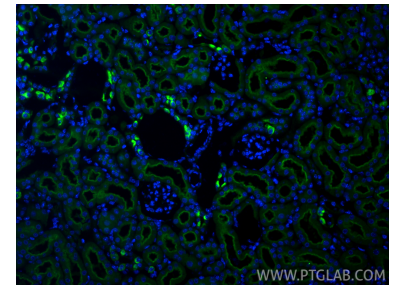
Selected Validation Data



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. This data was developed using the same antibody clone with 21570-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 21570-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using ATP6V0A4 antibody (21570-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21570-1-PBS in a different storage buffer formulation.