For Research Use Only

ATP6VOA4 Polyclonal antibody

Catalog Number: 21570-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number: GenBank Accession Number: 21570-1-AP BC 109305 GeneID (NCBI): Size: 260 μg/ml 50617 **UNIPROT ID:** Source: Rabbit Q9HBG4 Full Name: Isotype:

> ATPase, H+ transporting, lysosomal V0 subunit a4

AG16095 Calculated MW: 840 aa, 96 kDa Observed MW:

100 kDa

Applications

Tested Applications: IHC, WB,ELISA **Cited Applications:**

Immunogen Catalog Number:

Species Specificity: human, mouse Cited Species:

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

buffer pH 6.0

WB 1:500-1:2000 IHC 1:50-1:500

Purification Method:

Antigen affinity purification

Recommended Dilutions:

Positive Controls:

WB: mouse kidney tissue, IHC: human kidney tissue,

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 VO domain responsible for proton translocation. The VO domain is composed of five subunits: a, c, c', c" and d. The 'a' subunit of VO domain has four isoforms: a1-a4. It has been found that mutations in ATP6V0A4(a4) are associated with distal renal tubular $acidosis (dRTA)\ combined\ in\ some\ cases\ with\ progressive\ hearing\ loss\ leading\ to\ sensor ineural\ deafness.\ This$ 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
Jinming Xu	37559594	Oncol Lett	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

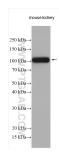
Aliquoting is unnecessary for -20°C storage

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

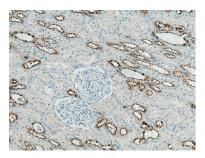
T: 4006900926 E: Proteintech-CN@ptglab.com

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

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 paraffinembedded human kidney tissue slide using 21570-1-AP (ATP6VOA4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).