

For Research Use Only

# ATP6V1A Polyclonal antibody

Catalog Number: 17115-1-AP

Featured Product

44 Publications



## Basic Information

### Catalog Number:

17115-1-AP

### Concentration:

450 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10801

### GenBank Accession Number:

BC013138

### GeneID (NCBI):

523

### UNIPROT ID:

P38606

### Full Name:

ATPase, H<sup>+</sup> transporting, lysosomal  
70kDa, V1 subunit A

### Calculated MW:

617 aa, 68 kDa

### Observed MW:

68 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:16000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total  
protein lysate

IHC: 1:20-1:200

IF/ICC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, monkey, zebrafish

**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:** A431 cells, human placenta tissue, mouse kidney  
tissue, HeLa cells, Daudi cells, HepG2 cells, K-562 cells,  
U-87 MG cells, mouse testis tissue, rat testis tissue

**IP:** HeLa cells,

**IHC:** human pancreas tissue, human thyroid cancer  
tissue

**IF/ICC:** NIH/3T3 cells, HeLa cells

## Background Information

The vacuolar-type H<sup>+</sup>-ATPase (V-ATPase) is responsible for the acidification of endosomes, lysosomes, and other intracellular organelles. It is also involved in hydrogen ion transport across the plasma membrane into the extracellular space. The V-ATPase is a multisubunit complex with cytosolic and transmembrane domains. The cytosolic catalytic domain consists of 3 A subunits and 3 B subunits, which bind and hydrolyze ATP, as well as regulatory accessory subunits. ATP6V1A is V-type proton ATPase catalytic subunit A.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ki-Ryeong Kim	36246521	Front Cell Neurosci	WB
Beiwu Lan	36116558	Exp Cell Res	WB
A Pérez-Cañamás	27620840	Mol Psychiatry	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

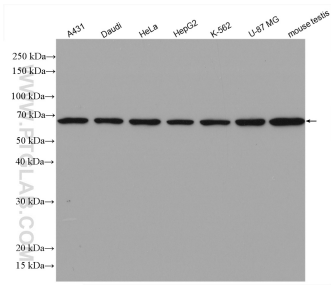
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

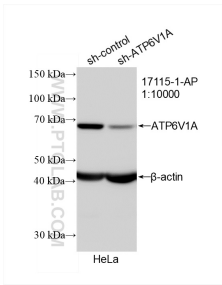
W: [ptgcn.com](http://ptgcn.com)

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

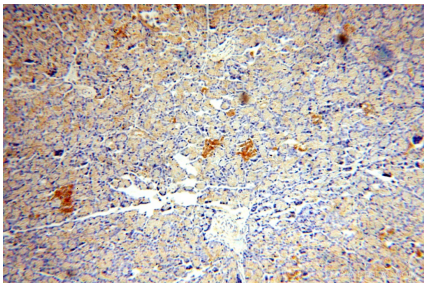
Selected Validation Data



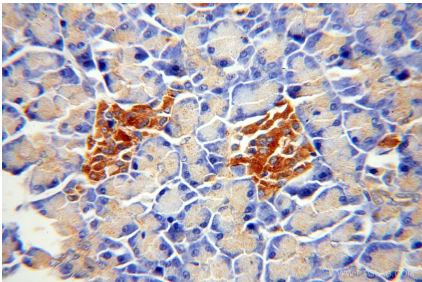
Various lysates were subjected to SDS PAGE followed by western blot with 17115-1-AP (ATP6V1A antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



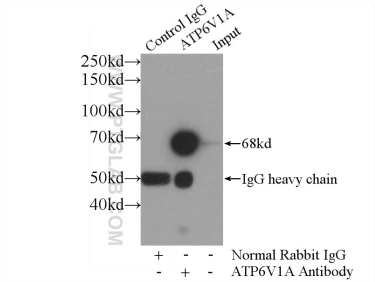
WB result of ATP6V1A antibody (17115-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATP6V1A transfected HeLa cells.



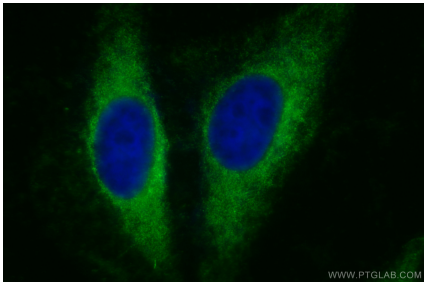
Immunohistochemical analysis of paraffin-embedded human pancreas using 17115-1-AP (ATP6V1A antibody) at dilution of 1:100 (under 10x lens).



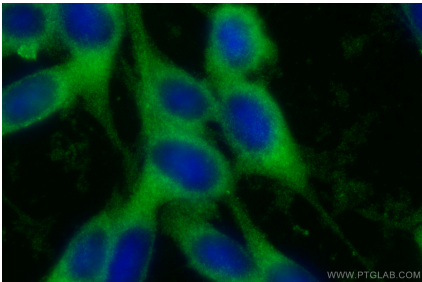
Immunohistochemical analysis of paraffin-embedded human pancreas using 17115-1-AP (ATP6V1A antibody) at dilution of 1:100 (under 40x lens).



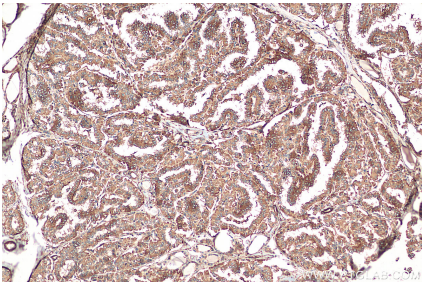
IP result of anti-ATP6V1A (IP:17115-1-AP, 4 $\mu$ g; Detection:17115-1-AP 1:500) with HeLa cells lysate 4000 $\mu$ g.



Immunofluorescent analysis of (-20 $^{\circ}$ C Ethanol) fixed HeLa cells using ATP6V1A antibody (17115-1-AP) at dilution of 1:400 and CoraLite $\text{®}$ 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20 $^{\circ}$ C Ethanol) fixed NIH/3T3 cells using ATP6V1A antibody (17115-1-AP) at dilution of 1:400 and CoraLite $\text{®}$ 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 17115-1-AP (ATP6V1A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).