

For Research Use Only

ATP6V1A Monoclonal antibody, PBS Only

Catalog Number: 68440-1-PBS

Featured Product



Basic Information

Catalog Number:

68440-1-PBS

Size:

1 mg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG10820

GenBank Accession Number:

BC013138

GeneID (NCBI):

523

UNIPROT ID:

P38606

Full Name:

ATPase, H⁺ transporting, lysosomal
70kDa, V1 subunit A

Calculated MW:

617 aa, 68 kDa

Observed MW:

68 kDa

Purification Method:

Protein A purification

CloneNo.:

1C5G2

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

Background Information

The vacuolar-type H⁽⁺⁾-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.

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

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

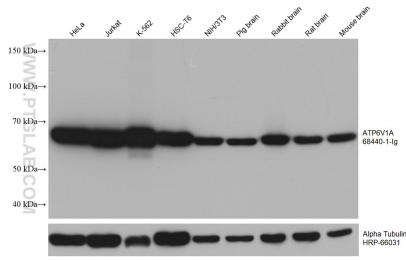
T: 4006900926

E: Proteintech-CN@ptglab.com

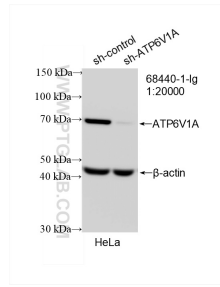
W: ptgcn.com

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

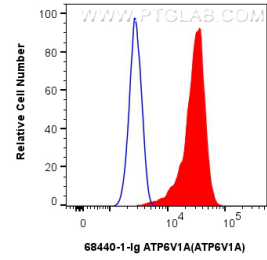
Selected Validation Data



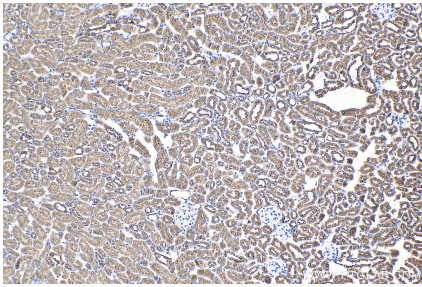
Various lysates were subjected to SDS PAGE followed by western blot with 68440-1-Ig (ATP6V1A antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 68440-1-PBS in a different storage buffer formulation.



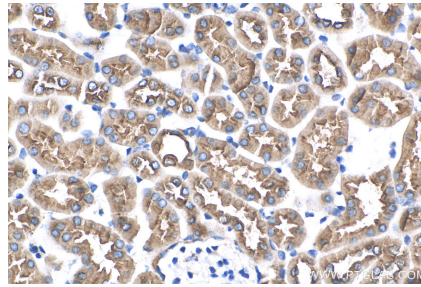
WB result of ATP6V1A antibody (68440-1-Ig: 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATP6V1A transfected HeLa cells. This data was developed using the same antibody clone with 68440-1-PBS in a different storage buffer formulation.



1×10^6 HeLa cells were intracellularly stained with 0.25 ug ATP6V1A Monoclonal antibody (68440-1-Ig, Clone:1C5G2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 68440-1-PBS in a different storage buffer



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 68440-1-Ig (ATP6V1A antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68440-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 68440-1-Ig (ATP6V1A antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68440-1-PBS in a different storage buffer formulation.