

For Research Use Only

# ATP1A2-Specific Polyclonal antibody, PBS Only

Catalog Number: 55179-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

55179-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by  
Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_000702

**GeneID (NCBI):**

477

**UNIPROT ID:**

P50993

**Full Name:**

ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, alpha 2  
(+) polypeptide

**Calculated MW:**

112 kDa

**Observed MW:**

100 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, IP, Indirect ELISA

**Species Specificity:**

human, mouse

## Background Information

ATP1A2, also named as KIAA0778, belongs to the cation transport ATPase (P-type) family and Type IIC subfamily. It is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. Defects in ATP1A2 are the cause of familial hemiplegic migraine type 2 (FHM2). Defects in ATP1A2 are a cause of alternating hemiplegia of childhood (AHC). This antibody is specific to ATP1A2.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

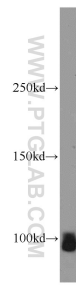
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

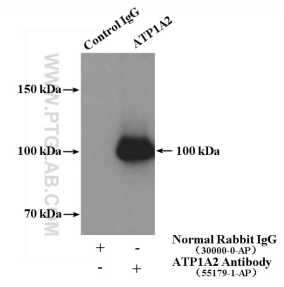
## Selected Validation Data



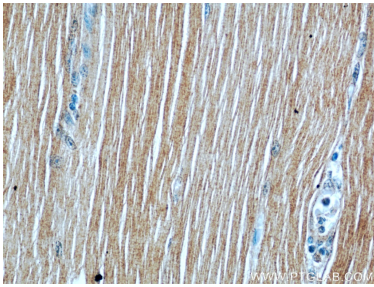
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55179-1-AP (ATP1A2-Specific antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 55179-1-PBS in a different storage buffer formulation.



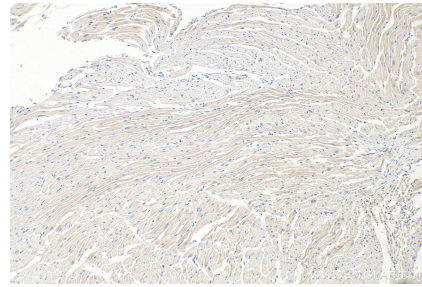
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 55179-1-AP (ATP1A2-Specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 55179-1-PBS in a different storage buffer formulation.



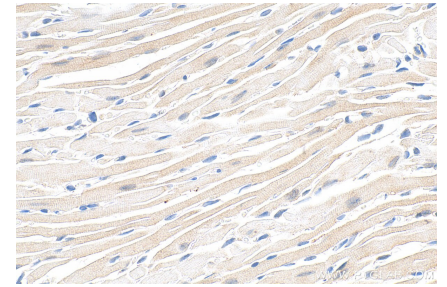
IP result of anti-ATP1A2-Specific (IP:55179-1-AP, 4ug; Detection:55179-1-AP 1:800) with mouse brain tissue lysate 4000ug. This data was developed using the same antibody clone with 55179-1-PBS in a different storage buffer formulation.



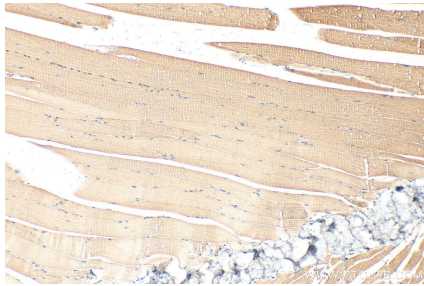
Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 55179-1-AP (ATP1A2-Specific antibody) at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 55179-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 55179-1-AP (ATP1A2-Specific 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 55179-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 55179-1-AP (ATP1A2-Specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 55179-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 55179-1-AP (ATP1A2-Specific 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 55179-1-PBS in a different storage buffer formulation.