

# Na<sup>+</sup>/K<sup>+</sup>-ATPase Rabbit mAb

Catalog No.: AC072    Recombinant

## Basic Information

### Observed MW

100 kDa

### Calculated MW

74 kDa/110 kDa/113 kDa

### Category

Loading control antibody

### Applications

WB, IF/ICC, IF-P, IHC-P, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### Clone No. number

ARC0674

## Background

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup>-ATPases. Na<sup>+</sup>/K<sup>+</sup>-ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na<sup>+</sup>/K<sup>+</sup>-ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

**WB**                    1:10000 - 1:90000

**IF/ICC**                1:200 - 1:600

**IF-P**                   1:200 - 1:600

**IHC-P**                1:5000 - 1:20000

**ELISA**                Recommended starting concentration is 1 µg/mL.  
Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ( $\geq 1:10000$ ) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

### Gene ID

476

### Swiss Prot

P05023

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

CMT2DD; HOMGSMR2

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

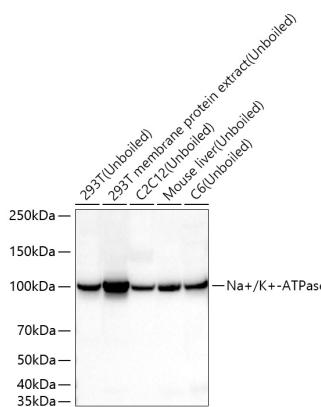
Buffer: PBS with 0.09% sodium azide, 0.05% BSA, 50% glycerol, negative IgG, pH 7.3

## **Contact**

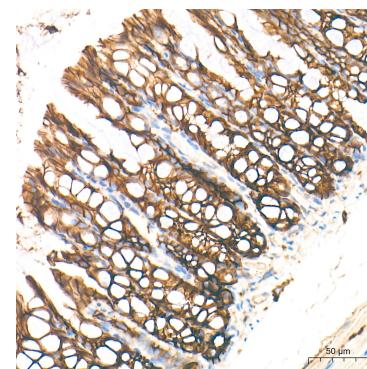
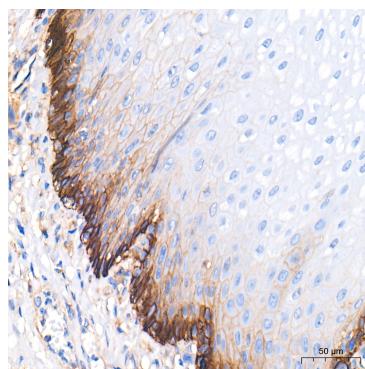
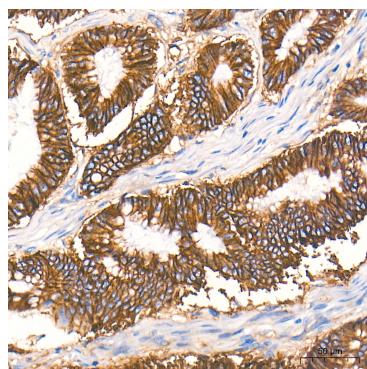
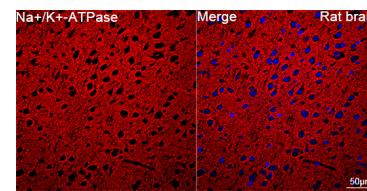
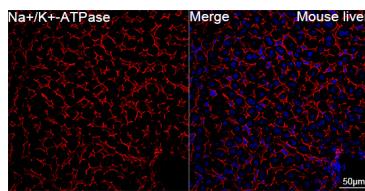
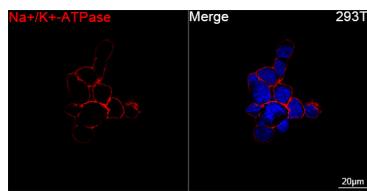
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-  | 400-999-6126
  -  | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)
  -  | [www.abclonal.com.cn](http://www.abclonal.com.cn)
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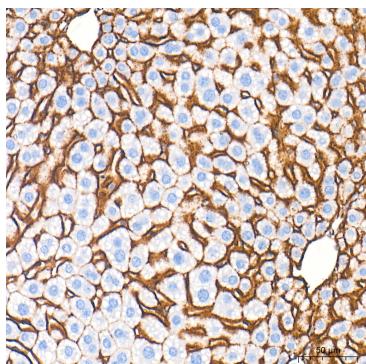
## Validation Data



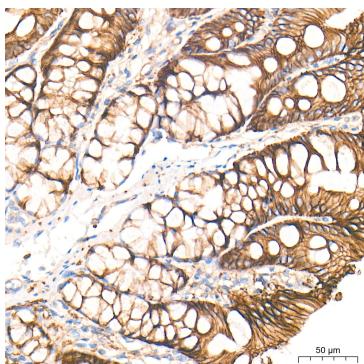
Western blot analysis of various lysates using Na+/K+-ATPase Rabbit mAb (AC072) at 1:90000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20 s.



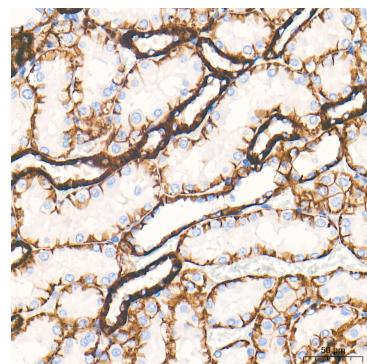
## Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Na+/K+-ATPase Rabbit mAb (AC072) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat intestine tissue using Na+/K+-ATPase Rabbit mAb (AC072) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Na+/K+-ATPase Rabbit mAb (AC072) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.