

# Aquaporin 2 Rabbit mAb

Catalog No.: A29278 **Recombinant**

## Basic Information

### Observed MW

28-29 kDa/35-38 kDa

### Calculated MW

29 kDa

### Category

Primary antibody

### Applications

WB,IF-F,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC3976

## Background

This gene encodes a water channel protein located in the kidney collecting tubule. It belongs to the MIP/aquaporin family, some members of which are clustered together on chromosome 12q13. Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes insipidus.

## Recommended Dilutions

**WB** 1:3000 - 1:15000

**IF-F** 1:1000 - 1:4000

**IHC-P** 1:2000 - 1:8000

**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.

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

## Immunogen Information

### Gene ID

359

### Swiss Prot

P41181

### Immunogen

This information is considered to be commercially sensitive.

### Synonyms

NDI2; AQP-CD; WCH-CD

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

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

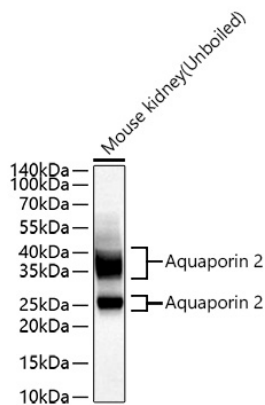
Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.



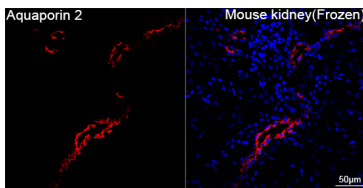
[www.abclonal.com.cn](http://www.abclonal.com.cn)

---

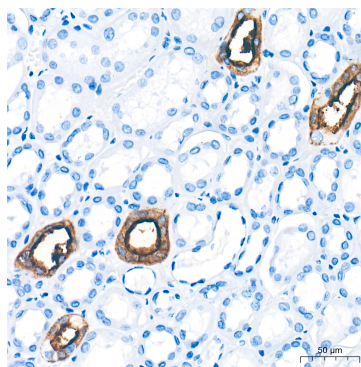
## Validation Data



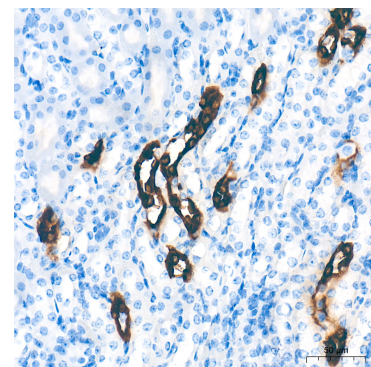
Western blot analysis of lysates from Mouse kidney using Aquaporin 2 Rabbit mAb (A29278) at 1:5000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 5 s.



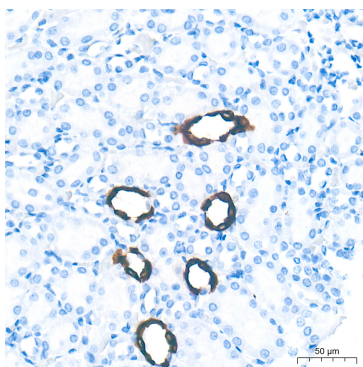
Confocal imaging of frozen sections of Mouse kidney tissue using Aquaporin 2 Rabbit mAb (A29278, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Aquaporin 2 Rabbit mAb (A29278) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Aquaporin 2 Rabbit mAb (A29278) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Aquaporin 2 Rabbit mAb (A29278) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.