

Aquaporin 2 Rabbit mAb

Catalog NO.: A29278 **Recombinant**

Basic Information

Observed MW

28-29 kDa/35-38 kDa

Calculated MW

29 kDa

Category

Monoclonal Antibodies

Applications

WB, IF-F, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Clone 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

Immunogen Information

Gene ID

359

Swiss Prot

P41181

Immunogen

This information is considered to be commercially sensitive.

Synonyms

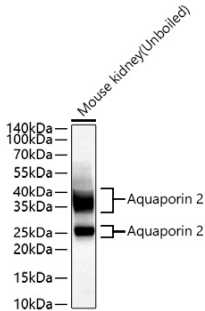
NDI2; AQP-CD; WCH-CD

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source	Isotype	Purification
Rabbit	IgG	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.		

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.

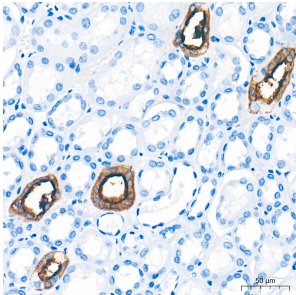
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

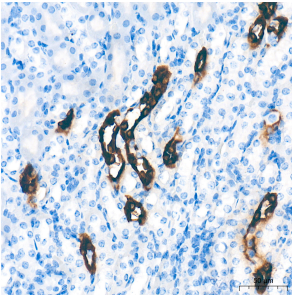
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

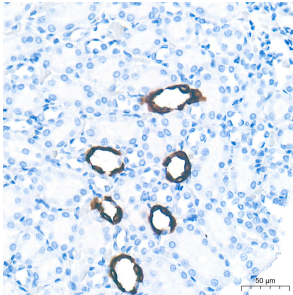
Exposure time: 5 s.



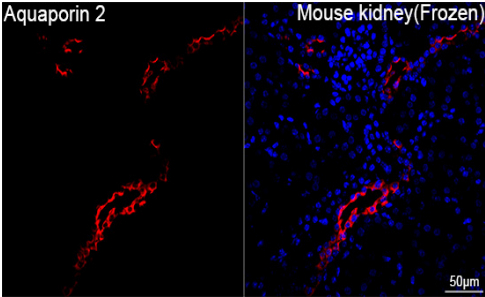
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Aquaporin 2 Rabbit mAb (A29278) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



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.



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.

Antibody: A29278, Rabbit mAb, Cy3-conjugated

For research use only. Not for therapeutic or diagnostic purposes.

Please visit <https://abclonal.com> for a complete list of recommended products.