

A29506

Leader in Biomolecular Solutions for Life Science



Aquaporin-1 (AQP1) Rabbit mAb

Catalog No.: A29506

Recombinant

Basic Information

Observed MW

30-50 kDa(glycosylation)/24 kDa(non-glycosylated)

Calculated MW

16 kDa/20 kDa/23 kDa/28 kDa

Category

Monoclonal Antibody

Applications

WB,IHC-P,ELISA,IF-F

Cross-Reactivity

Human,Mouse,Rat

Background

This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement.

Recommended Dilutions

WB 1:100000 - 1:400000

IF-F 1:5000 - 1:50000

IHC-P 1:10000 - 1:50000

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

Immunogen Information

Gene ID
358

Swiss Prot
P29972

Immunogen

This information is considered to be commercially sensitive.

Synonyms

CO; CHIP28; AQP-CHIP

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage

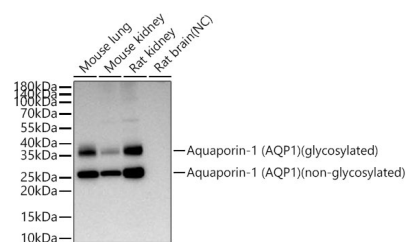
Store at -20°C

Contact



www.abclonal.com

Validation Data



Western blot analysis of various lysates using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at 1:200000 dilution incubated overnight at 4°C.

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

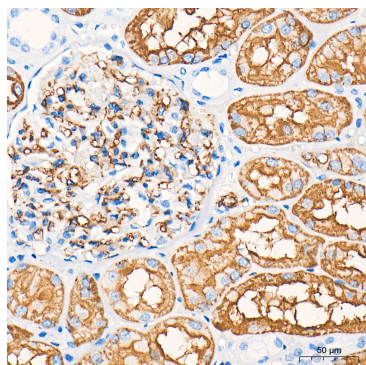
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

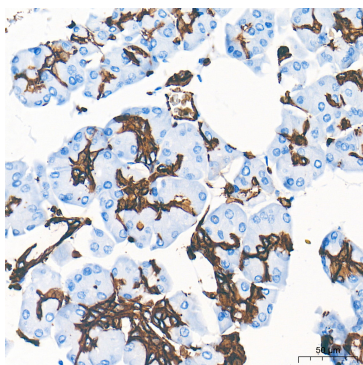
Detection: ECL Basic Kit (RM00020).

Negative control (NC): Rat brain.

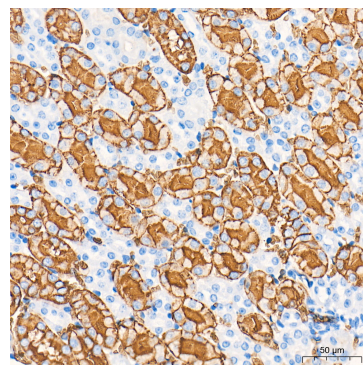
Exposure time: 10 s.



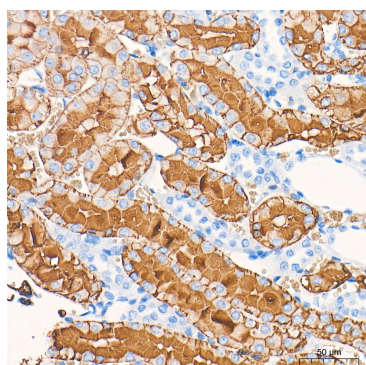
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



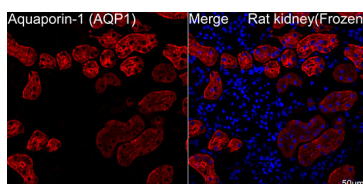
Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



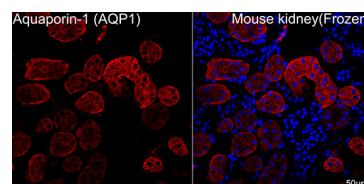
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of frozen sections of Rat kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506, dilution 1:32000) 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.



Confocal imaging of frozen sections of Mouse kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506, dilution 1:32000) 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.