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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
Primary antibody

Applications
WB,IF-F,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC4145

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

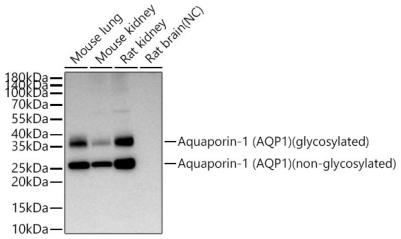
Storage
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Contact

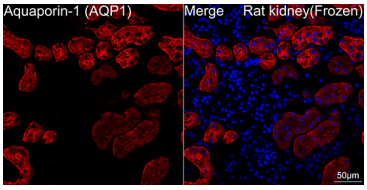
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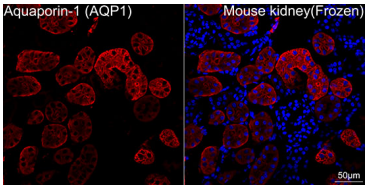
Validation Data



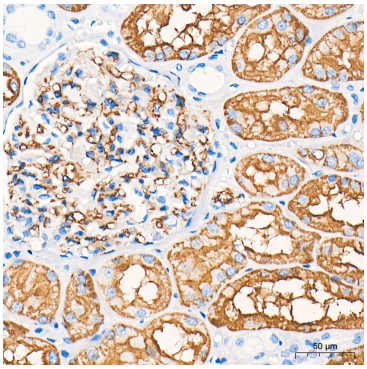
Western blot analysis of various lysates using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at 1:200000 dilution incubated overnight at 4℃.|Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.|Lysates/proteins: 25 µg per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit (RM00020).|Negative control (NC): Rat brain.|Exposure time: 10 s.



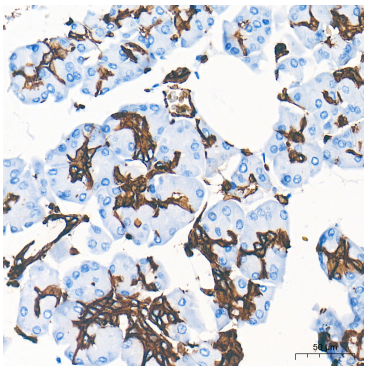
Confocal imaging of frozen sections of Rat kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506, dilution 1:32000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



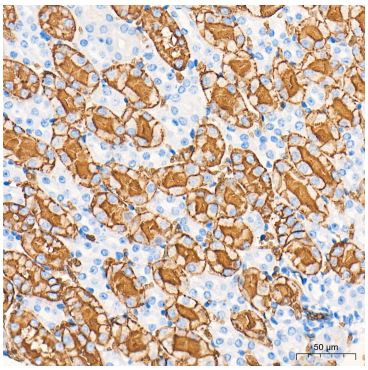
Confocal imaging of frozen sections of Mouse kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506, dilution 1:32000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



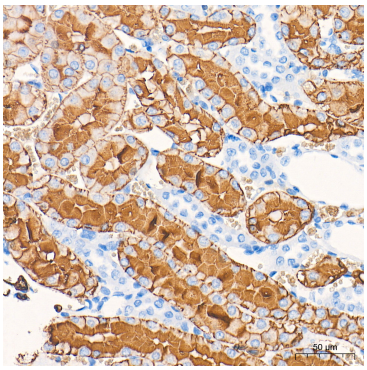
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Aquaporin-1 (AQP1) Rabbit mAb (A29506) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



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.