Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Aquaporin-4 (AQP4) Rabbit mAb

Catalog No.: A11210

Recombinant | 5 Publications

Basic Information

Observed MW
28 kDa/34kDa

Calculated MW
32KDa/34kDa

Category
Monoclonal Antibodies

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

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC54345

Background

This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. Additional isoforms, resulting from the use of alternative in-frame translation initiation codons, have also been described. Recent studies provided evidence for translational readthrough in this gene, and expression of C-terminally extended isoforms via the use of an alternative in-frame translation termination codon.

Recommended Dilutions

WB	1:4000 - 1:20000
IF-F	1:200 - 1:1000
IF-P	1:200 - 1:800
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 (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
361

Swiss-Prot
P55087

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
MIWC; WCH4; hAQP4; Aquaporin-4 (AQP4)

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

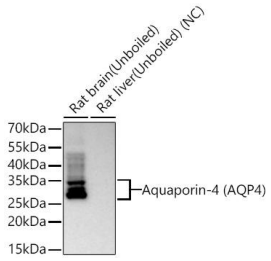
Source
Rabbit

Isotype
IgG

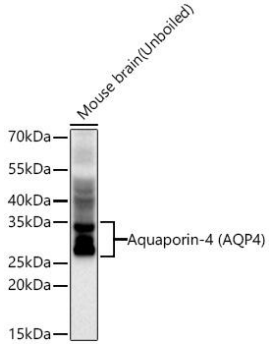
Purity
Affinity purification

Storage
Store at -20℃

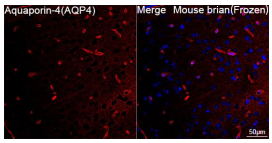
Validation Data



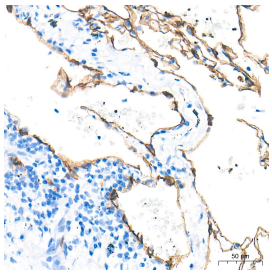
Western blot analysis of various lysates using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at 1:4000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Rat liver.
Exposure time: 20 s.



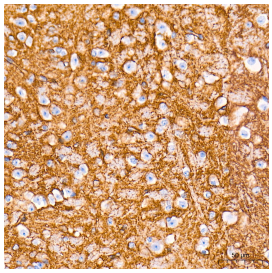
Western blot analysis of lysates from Mouse brain using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.



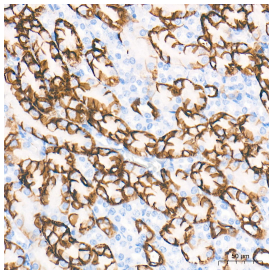
Confocal imaging of frozen sections of Mouse brain using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:400) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



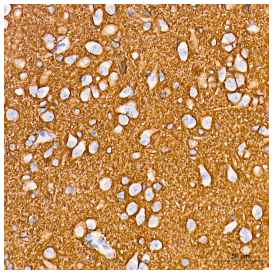
Immunohistochemistry analysis of paraffin-embedded Human lung tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



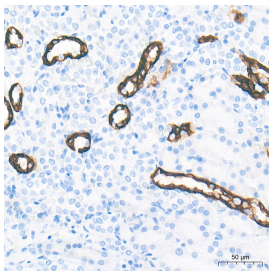
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



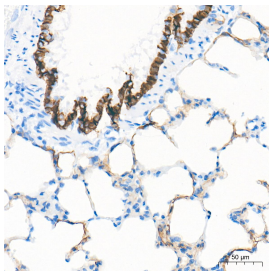
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



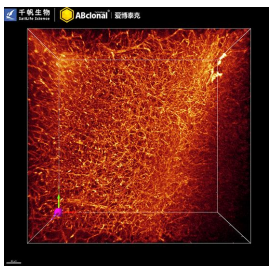
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



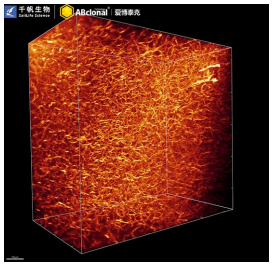
Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



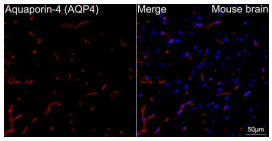
Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



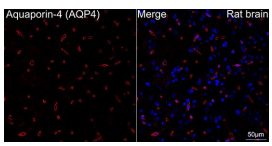
3D imaging of solvent-cleared Mouse brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:200). SailClear Tissue Optical Clearing Kit(QF2601) was used for sample clearing. We acknowledge SailLife(Nanjing) Sci-Tech Co., Ltd. in 3D imaging processing and kindly providing this image.



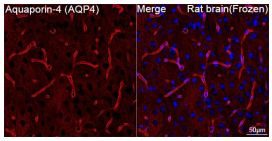
3D imaging of solvent-cleared Mouse brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:200). SailClear Tissue Optical Clearing Kit(QF2601) was used for sample clearing. We acknowledge SailLife(Nanjing) Sci-Tech Co., Ltd. in 3D imaging processing and kindly providing this image.



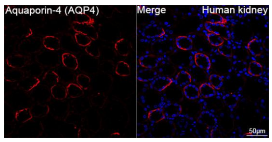
Confocal imaging of paraffin-embedded mouse brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x.Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of paraffin-embedded rat brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x.Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of frozen sections of Rat brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:200) 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 paraffin-embedded Human kidney tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210, dilution 1:200) 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). High pressure antigen retrieval performed with 0.01 M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.