

A11210

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# Aquaporin-4 (AQP4) Rabbit mAb

Catalog No.: A11210 **Recombinant** **1 Publications**

## Basic Information

### Observed MW

35kDa

### Calculated MW

32kDa/34kDa

### Category

SMab Recombinant Monoclonal Antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### CloneNo number

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	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

## Immunogen Information

### Gene ID

361

### Swiss Prot

P55087

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 256-323 of human Aquaporin-4 (AQP4) (NP\_001641.1).

### Synonyms

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

## Contact



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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

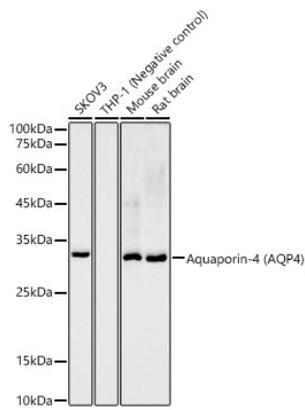
Affinity purification

### Storage

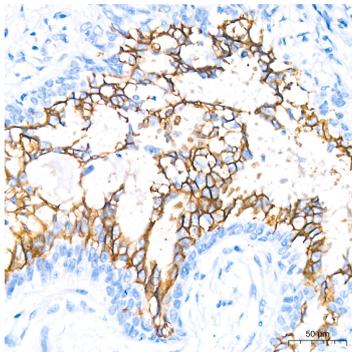
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

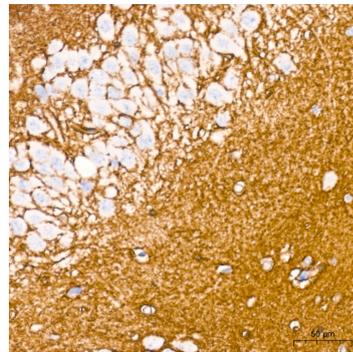
## Validation Data



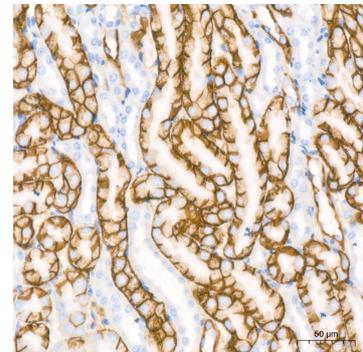
Western blot analysis of various lysates, using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at 1:900 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



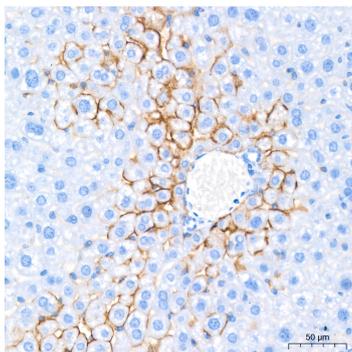
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded human lung cancer tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



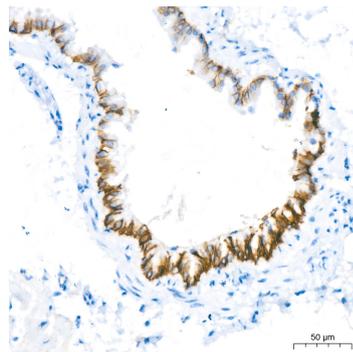
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



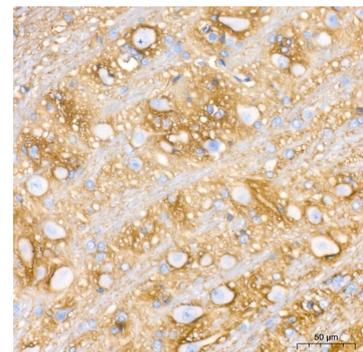
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse kidney tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse liver tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

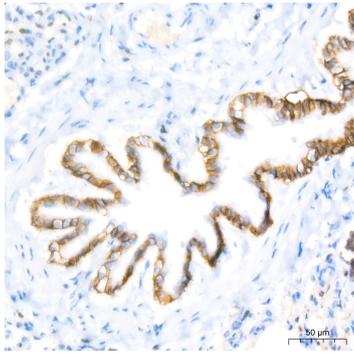


Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse lung tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

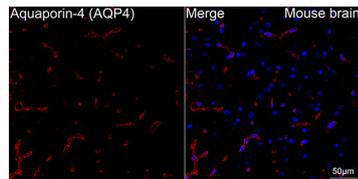


Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded rat brain tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

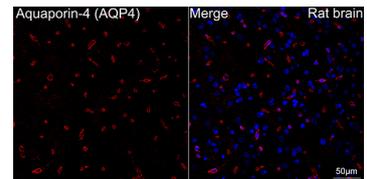
## Validation Data



Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded rat lung tissue using Aquaporin-4 (AQP4) Rabbit mAb (A11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of paraffin-embedded mouse brain 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 paraffin-embedded rat brain 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.