Aquaporin-4 (AQP4) Monoclonal Antibody

CAB11210

Description

This Aquaporin-4 (AQP4) Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB11210
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	MIWC, WCH4, hAQP4, Aquaporin-4 (AQP4)
Clone:	ARC54345
Applications:	WB IHC-P ELISA IF-F IF-P
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	361
Uniprot:	AB_2861521
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	28 kDa
Calculated MW:	32KDa/34kDa

Preparation & Storage

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.
Store Bradford Reagent at Room Temperature for 1 Year.

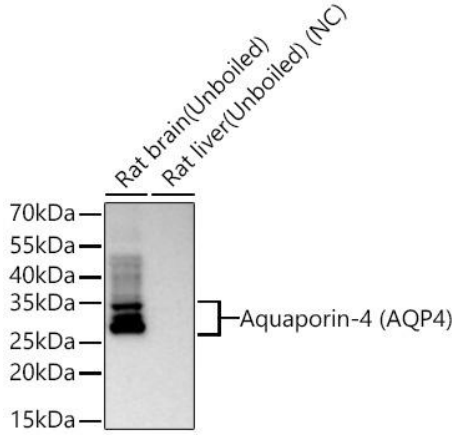
Positive Sample: Rat brain, Mouse brain

Recommended Dilutions:

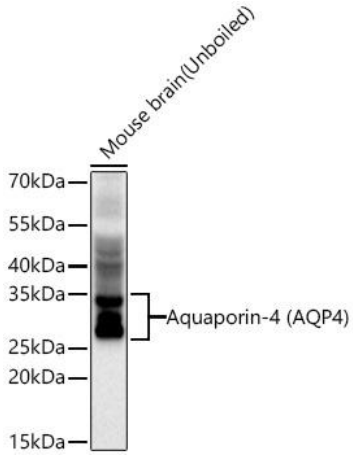
WB	1:5000 - 1:20000
IF-F	1:200 - 1:1000
IF-P	1:200 - 1:800
IHC-P	1:200 - 1:800
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

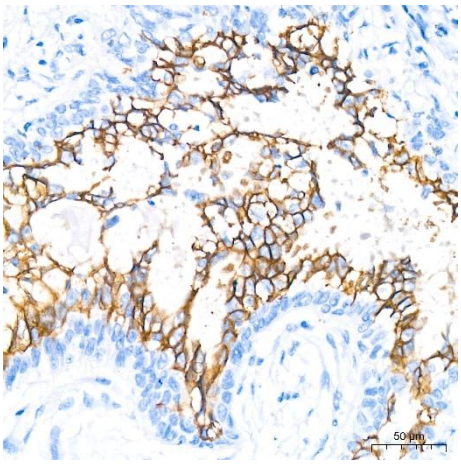
Validation Data



Western blot analysis of various lysates using Aquaporin-4 Rabbit mAb (CAB11210) at 1:4000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Negative control (NC): Rat liver. Exposure time: 20 s.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Aquaporin-4 Rabbit mAb (CAB11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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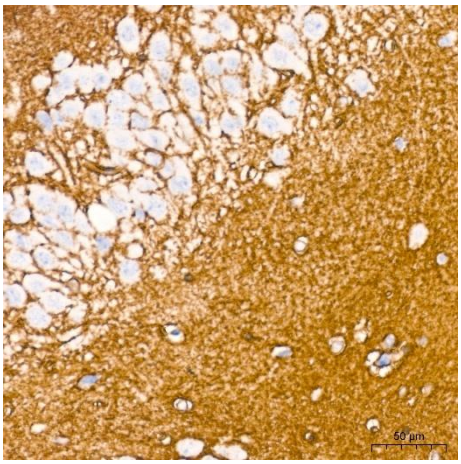
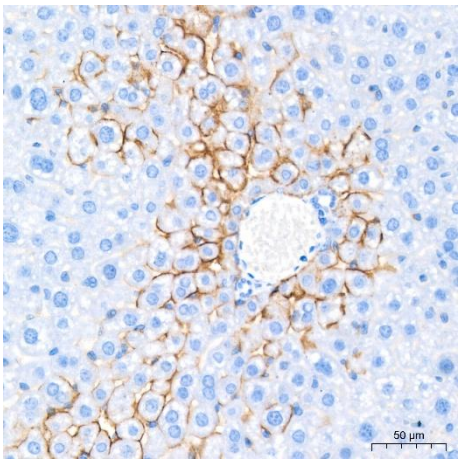
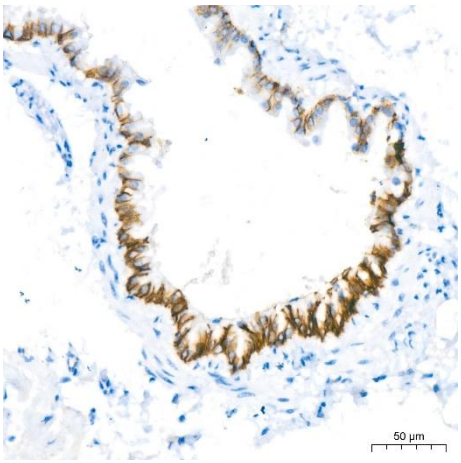


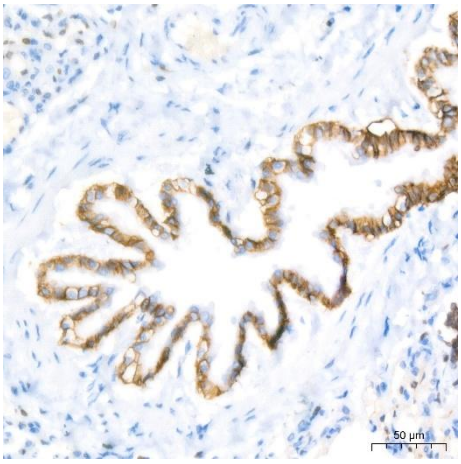
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Aquaporin-4 Rabbit mAb (CAB11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



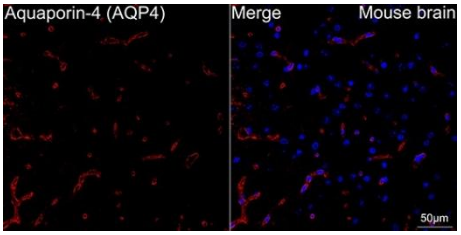
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Aquaporin-4 Rabbit mAb (CAB11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



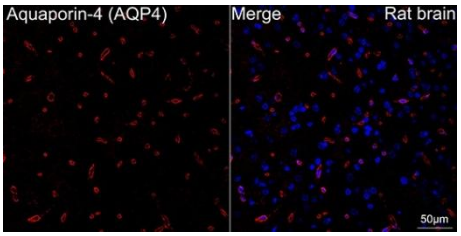
Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using Aquaporin-4 Rabbit mAb (CAB11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Aquaporin-4 Rabbit mAb (CAB11210) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of paraffin-embedded mouse brain tissue using Aquaporin-4 Rabbit mAb (CAB11210, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, 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 tissue using Aquaporin-4 Rabbit mAb (CAB11210, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, 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.