Anti-AQP1 Antibody (Clone#AAEE-1)

Catalog Number: *BM5035*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-AQP1 Antibody (Clone#AAEE-1)
Gene Name	AQP1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human AQP1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	25 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Aquaporin 1 is a 28-kD integral protein thought at first to be a breakdown product of the Rh polypeptide but was later shown to be a unique molecule that is abundant in erythrocytes and renal tubules. AQP1 is also expressed by the choroid plexus and various other tissues. It forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

Reference

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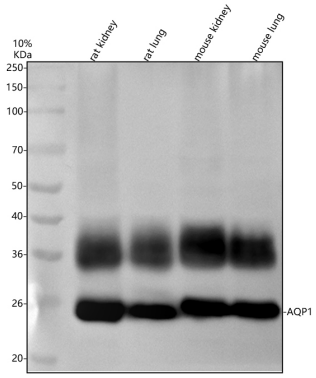
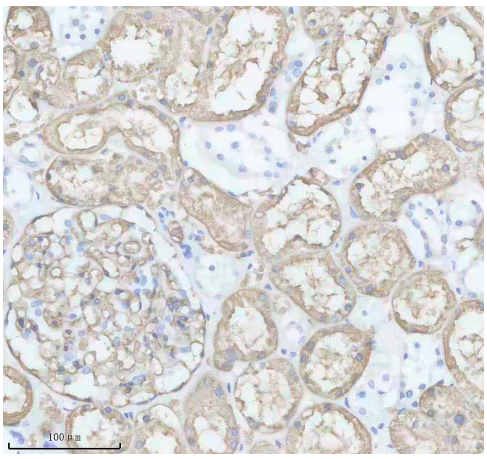
Anti-AQP1 Antibody (Clone#AAEE-1)被引用在1文献中。

Selected Validation Data



Western blot analysis of anti-AQP1 antibody (BM5035). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat kidney tissue lysates,
Lane 2: rat lung tissue lysates,
Lane 3: mouse kidney tissue lysates,
Lane 4: mouse lung tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-AQP1 antigen affinity purified monoclonal antibody (BM5035) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for AQP1 at approximately 25 kDa. The expected band size for AQP1 is at 25 kDa.



IHC analysis of AQP1 using anti-AQP1 antibody (BM5035).
AQP1 was detected in a paraffin-embedded section of human kidney tissue. The tissue section was incubated with rabbit anti-AQP1 Antibody (BM5035) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.