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Anti-AQP1 Rabbit Monoclonal Antibody

Catalog Number: M00865

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Overview

Product Name	Anti-AQP1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-AQP1 Rabbit Monoclonal Antibody catalog # M00865. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal AAEE-1
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P29972

Technical Details

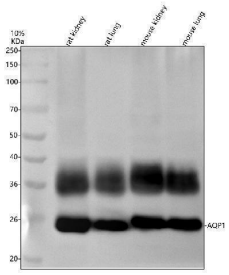
Immunogen	A synthesized peptide derived from human AQP1
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000

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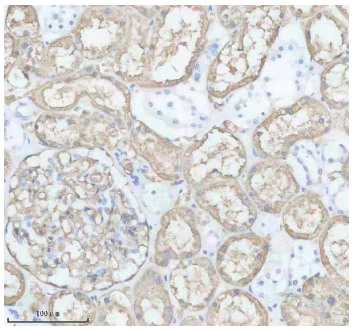
	IHC, 1:50-200 ICC/IF, 1:50-200

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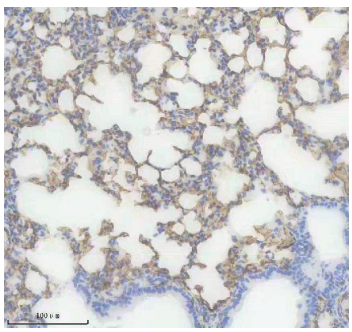
Anti-AQP1 Rabbit Monoclonal Antibody (M00865) Images



Western blot analysis of AQP1 using anti-AQP1 antibody (M00865). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. 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 nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AQP1 antigen affinity purified monoclonal antibody (M00865) at 1: 500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for AQP1 at approximately 25 kDa. The expected band size for AQP1 is at 25 kDa.



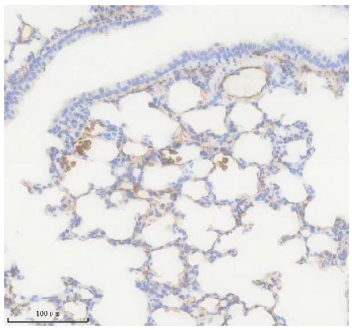
IHC analysis of AQP1 using anti-AQP1 antibody (M00865). AQP1 was detected in a paraffin-embedded section of human kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-AQP1 Antibody (M00865) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



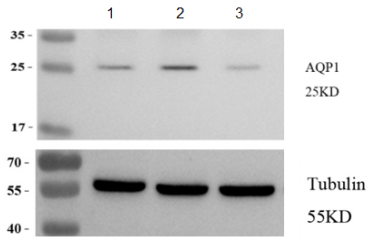
IHC analysis of AQP1 using anti-AQP1 antibody (M00865). AQP1 was detected in a paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-AQP1 Antibody (M00865) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of AQP1 using anti-AQP1 antibody (M00865). AQP1 was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue

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Western blot analysis of AQP1 using anti-AQP1 antibody (M00865). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: MADB106 cells under normal culture conditions, Lane 2: MADB106 cells treated with agonist, Lane 3: MADB106 cells treated with inhibitor. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AQP1 antigen affinity purified monoclonal antibody (M00865) at 1: 3000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with ChemiDoc MP system. A specific band was detected for AQP1 at approximately 25 kDa. The expected band size for AQP1 is at 25 kDa.

6 Publications Citing This Product

1. PubMed ID: 10.3892/mmr.2018.8809, Dynamic expression and roles of sequestome-1/p62 in LPS-induced acute kidney injury in mice

2. PubMed ID: 25624795, Huo J, Liu J, Wang J, Zhang Y, Wang C, Yang Y, Sun W, Xu S. Neural Regen Res. 2012 Aug 5;7(22):1729-35. Doi: 10.3969/J.Issn.1673-5374.2012.22.008. Early Hyperbaric Oxygen Therapy Inhibits Aquaporin 4 And Adrenocorticotropic Hormone Expression In T...

3. PubMed ID: 29620262, Dynamic expression and roles of sequestome-1/p62 in LPS-induced acute kidney injury in mice

Visit bosterbio.com/anti-aqp1-rabbit-monoclonal-antibody-m00865-boster.html to see all 6 publications.

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