

Anti-Aquaporin 8/AQP8 Antibody

Catalog Number: PA1511

About AQP8

AQP8, also known as Aquaporin-8, is a protein that in humans is encoded by the AQP8 gene. Aquaporin 8 (AQP8) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 8 mRNA is found in pancreas and colon but not other tissues. The AQP8 gene contains 6 exons. It is mapped to chromosome 16p12. Northern blot analysis of human tissues detected a 1.35-kb AQP8 mRNA only in pancreas and colon.

Overview

Product Name	Anti-Aquaporin 8/AQP8 Antibody
Reactive Species	Human
Description	Rabbit IgG polyclonal antibody for Aquaporin-8 (AQP8) detection. Tested with WB in Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O94778

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Aquaporin 8 (1-19aa MSGEIAMCEPEFGNDKARE).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5µg/ml, Human
	For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-Aquaporin 8/AQP8 Antibody (PA1511) Images

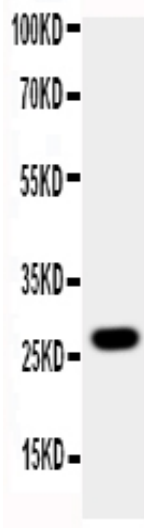


Figure 1. Western blot analysis of AQP8 using anti-AQP8 antibody (PA1511).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human A431 whole cell lysates.

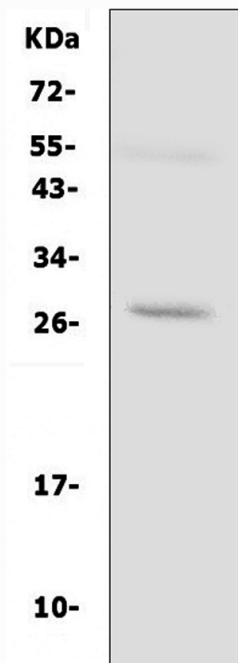
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AQP8 antigen affinity purified polyclonal antibody (Catalog # PA1511) at 0.5 µg/mL overnight 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 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for AQP8 at approximately 27KD. The expected band size for AQP8 is at 27KD.

Figure 2. Western blot analysis of AQP8 using anti-AQP8 antibody (PA1511).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human PC-3 whole cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-AQP8 antigen affinity purified polyclonal antibody (Catalog # PA1511) at 0.5 µg/mL 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 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for AQP8 at approximately 27KD. The expected band size for AQP8 is at 27KD.

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