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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Aquaporin 0/MIP Antibody Picoband®

Catalog Number: PB9811

About MIP

Lens fiber major intrinsic protein, also called MIP26 or MP26, is a protein that in humans is encoded by the MIP gene. MIP is a member of the water-transporting aquaporins as well as the original member of the MIP family of channel proteins. Using 2-color fluorescence in situ hybridization on high-resolution R-banded chromosomes and human genomic DNA clones for MIP as probes, this gene was found that located in close proximity in region 12q13. MIP plays a crucial role in the development of a transparent eye lens. This gene may be responsible for regulating the osmolarity of the lens and interactions between homotetramers from adjoining membranes may stabilize cell junctions in the eye lens core.

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Overview

Product Name	Anti-Aquaporin 0/MIP Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Aquaporin 0/MIP Antibody Picoband® catalog # PB9811. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *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 from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P30301

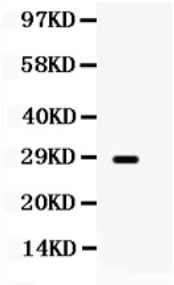
Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Aquaporin 0, different from the related mouse and rat sequences by six amino acids.
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	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Rat, Human

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Anti-Aquaporin 0/MIP Antibody Picoband® (PB9811) Images



Western blot analysis of Aquaporin 0 using anti-Aquaporin 0 antibody (PB9811). 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 50 ug of sample under reducing conditions. Lane 1: rat eye ball tissue Lysate. 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-Aquaporin 0 antigen affinity purified polyclonal antibody (Catalog # PB9811) at 0.5 ug/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 1:5000 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 Aquaporin 0 at approximately 28 kDa. The expected band size for Aquaporin 0 is at 28 kDa.

5 Publications Citing This Product

1. PubMed ID: 26022197, Liu R, An L, Liu G, Li X, Tang W, Chen X. Antiviral Res. 2015 Aug;120:101-11. Doi: 10.1016/J.Antiviral.2015.05.008. Epub 2015 May 27. Mouse Lung Slices: An Ex Vivo Model For The Evaluation Of Antiviral And Anti-Inflammatory Agents Against Influenz...

2. PubMed ID: 25677765, Sun Y, Zhao Y, Yao J, Zhao L, Wu Z, Wang Y, Pan D, Miao H, Guo Q, Lu N. Biochem Pharmacol. 2015 Mar 15;94(2):142-54. Doi: 10.1016/J.Bcp.2015.02.002. Epub 2015 Feb 10. Wogonoside Protects Against Dextran Sulfate Sodium-Induced Experimental Colitis ...

3. PubMed ID: 22517906, Bruns I, Cadeddu Rp, Brueckmann I, Fr??bel J, Geyh S, B??st S, Fischer Jc, Roels F, Wilk Cm, Schildberg Fa, H??nerlit??rkoglu An, Zilkens C, J??ger M, Steidl U, Zohren F, Fenk R, Kobbe G, Brors B, Czibere A, Schroeder T, Trumpp A, Haas R. Blood. 2...

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