

Anti-Aquaporin 10/AQP10 Antibody Picoband®

Catalog Number: PA2095

About AQP10

AQP10 was identified in human small intestine. This gene encoded a 264-amino-acid protein with high sequence identity with AQP3 (53%), 9 (52%), and 7 (43%). These AQPs constitute one subfamily of AQP family that is differentiated from the other subfamily of AQP (AQP0, 1, 2, 4, 5, 6, and 8) by sequence homology. Northern blot analysis revealed expression of a 2.3-kb AQP10 transcript in jejunum but not liver. RNase protection analysis detected nearly exclusive expression in duodenum and jejunum. In situ hybridization analysis demonstrated highest expression of AQP10 in absorptive epithelial cells at the tips of villi in the jejunum. SDS-PAGE analysis showed expression of a 28-kD AQP10 protein, similar to its predicted size as well as to that of the other AQPs. Functional analysis indicated that cells expressing AQP10 are permeable to relatively low amounts of water, but, unlike AQP3, AQP7, and AQP9, are not permeable to urea or glycerol.

Overview

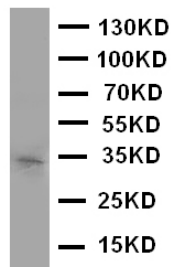
Product Name	Anti-Aquaporin 10/AQP10 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Aquaporin 10/AQP10 Antibody catalog # PA2095. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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	Q96PS8

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Aquaporin 10.
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, Human

Anti-Aquaporin 10/AQP10 Antibody Picoband® (PA2095) Images



Anti-Aquaporin 10 antibody, PA2095, Western blottingWB:
COLO320 Cell Lysate

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Anti-Aquaporin 10/AQP10 Antibody

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