BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Aquaporin 5/AQP5 Antibody Picoband®

Catalog Number: PA1230

About Aqp5

Aquaporin 5, also known as AQP5, is a water channel protein. The aquaporins (AQPs) are a family of more than 10 homologous water transporting proteins expressed in many mammalian epithelia and endothelia. At least five AQPs are expressed in the eye: AQP0 (MIP) in lens fiber, AQP1 in cornea endothelium, ciliary and lens epithelia and trabecular meshwork, AQP3 in conjunctiva, AQP4 in ciliary epithelium and retinal Müller cells, and AQP5 in corneal and lacrimal gland epithelia. Among the seven human aquaporins cloned to date (AQPs 0-6), genes encoding the four most closely related aquaporins (AQP0, AQP2, AQP5, and AQP6) have been mapped to chromosome band 12q13, suggesting an aquaporin family gene cluster at this locus. Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions.

Overview

Product Name	Anti-Aquaporin 5/AQP5 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Aquaporin 5/AQP5 Antibody catalog # PA1230. Tested in IHC, WB applications. This antibody reacts with Mouse, 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg 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	Q9WTY4

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse AQP5, identical to the related rat sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Mouse Western blot, 0.1-0.5ug/ml, Rat, Mouse

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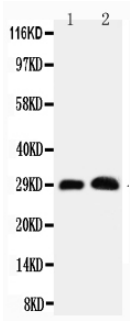
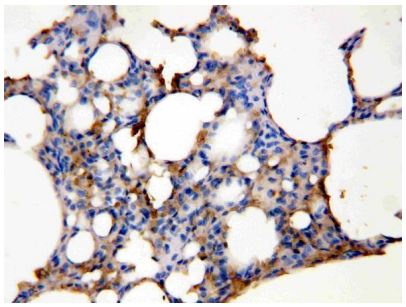
Anti-Aquaporin 5/AQP5 Antibody Picoband® (PA1230) Images



Anti-Aquaporin 5 antibody, PA1230, Western blottingWorking concentration: 0.5ug/mlLane 1: Rat Lung Tissue LysateLane 2: Rat Testis Tissue Lysate



Anti-Aquaporin 5 antibody, PA1230, IHC(P)IHC(P): Rat Lung Tissue LysateWorking concentration: 1ug/ml

5 Publications Citing This Product

1. PubMed ID: 10.1016/j.ydbio.2017.07.018, Trinucleotide repeat containing 6c (TNRC6c) is essential for microvascular maturation during distal airspace sacculation in the developing lung

2. PubMed ID: 10.1016/j.jtherbio.2020.102727, Seasonal effect in expression of AQP1, AQP3 and AQP5 in skin of Murrah buffaloes

3. PubMed ID: 10.1080/09291016.2021.2007329, Expression of AQP1, AQP3, AQP4 and AQP5 in upper respiratory tract of buffaloes during different seasons

Visit bosterbio.com/anti-aquaporin-5-antibody-pa1230-boster.html to see all 5 publications.

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