

Anti-Aquaporin 5/AQP5 Antibody

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

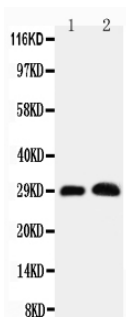
Product Name	Anti-Aquaporin 5/AQP5 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Aquaporin 5/AQP5 Antibody catalog # PA1230. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	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

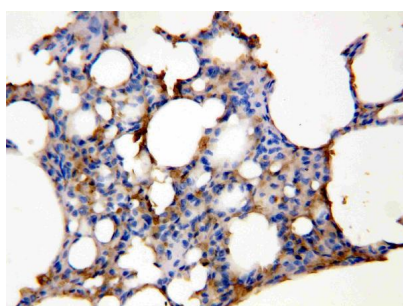
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse AQP5, identical to the related rat sequence.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Rat, Mouse</p>

Anti-Aquaporin 5/AQP5 Antibody (PA1230) Images



Anti-Aquaporin 5 antibody, PA1230, Western blotting
Working concentration: 0.5ug/ml
Lane 1: Rat Lung Tissue Lysate
Lane 2: Rat Testis Tissue Lysate



Anti-Aquaporin 5 antibody, PA1230, IHC(P)
IHC(P): Rat Lung Tissue Lysate
Working 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

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