bs-10927R **[Primary Antibody]**

Aquaporin 5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 362 **SWISS:** P55064

Target: Aquaporin 5

Immunogen: KLH conjugated synthetic peptide derived from human Aquaporin 5: 151-250/265. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Aquaporin 5 (AQP5) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions. AQP0, AQP2, AQP5, and AQP6 are closely related and all map to 12q13. [provided by RefSeq, Jul 2008]

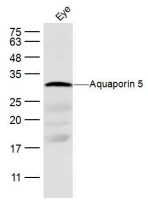
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Pig)

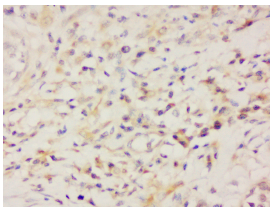
Predicted MW.: 29 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Eye (Rat) Lysate at 40 ug Primary: Anti-Aquaporin 5 (bs-10927R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29 kD Observed band size: 29 kD



Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Aquaporin Polyclonal Antibody, Unconjugated(bs-10927R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=3.266]** Dai TQ et al. In vitro transdifferentiation of adipose tissue-derived stem cells into salivary gland acinar-like cells. Am J Transl Res. 2019 May 15;11(5):2908-2924. ICC,WB ;Mouse. 31217863
- **[IF=2.7]** Maren E. Buenning. et al. Short-Time Alternating Current Electrical Stimulation and Cell Membrane-Related Components. APPL SCI-BASEL. 2024 Jan;14(2):812 IF ;Human. 10.3390/app14020812
- **[IF=2.9]** Cunping Yin. et al.Notch 2 from bone marrow mesenchymal stem cells alleviates smoke inhalation-induced lung injury by mediating alveolar cell differentiation..JOURNAL OF MOLECULAR HISTOLOGY.2025 Mar 22;56(2):113. Western blot ;Rat. 40119225
- **[IF=2.027]** Ba F et al. Lipoxin A4 ameliorates alveolar fluid clearance disturbance in lipopolysaccharide-induced lung

injury via aquaporin 5 and MAPK signaling pathway. J Thorac Dis 2019;11(8):3599-3608 WB ;Mouse.
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