bs-1253R **[Primary Antibody]**

AQP3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 11828 **SWISS:** Q8R2N1

Target: AQP3

Immunogen: KLH conjugated synthetic peptide derived from mouse AQP3: 201-292/292. < Cytoplasmic >

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: This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. [provided by RefSeq, Aug 2011]

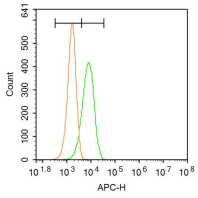
Applications: **Flow-Cyt** (2ug/Test)

Reactivity: Human (predicted: Mouse, Rat)

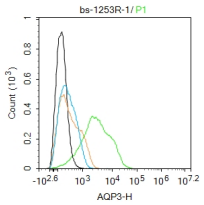
Predicted MW.: 32 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-AQP3 antibody (bs-1253R) Dilution: 3μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 3μg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control（black line）:A431. Primary Antibody (green line): Rabbit Anti-AQP3 antibody (bs-1253R) Dilution:1ug/Test; Secondary Antibody（white blue line）: Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）: Normal Rabbit IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=7.675]** Yimeng Fan. et al. Pingwei San Ameliorates Spleen Deficiency-Induced Diarrhea through Intestinal Barrier Protection and Gut Microbiota Modulation. ANTIOXIDANTS-BASEL. 2023 May;12(5):1122 IHC ;Rat. 37237988
- **[IF=6.9]** Huinan Wang. et al. Formation mechanism, prevention of malignant ascites effusion and reduction of intestinal mucosal irritation of natural microemulsion from Euphorbia lathyris Pulveratum. BIOMED PHARMACOTHER. 2024

Sep;178:117253 WB ;Mouse. 39111084

- **[IF=6.7]** Shi-Kang Zhou. et al. Fructus Jujubae cooperated with water-expelling members in Shizao decoction alleviated intestinal injury and malignant ascites by modulating gut microbiota and metabolic homeostasis. PHYTOMEDICINE. 2024 Oct;133:155895 IHC ;Rat. 39084184
- **[IF=5.4]** Wang Chenxing. et al. The rhizomes of Atractylodes macrocephala Koidz improve gastrointestinal health and pregnancy outcomes in pregnant mice via modulating intestinal barrier and water-fluid metabolism. J ETHNOPHARMACOL. 2024 May;326:117971 IHC ;Mouse. 38403003
- **[IF=4.331]** Tang SC et al. Glycolic acid attenuates UVB-induced aquaporin-3, matrix metalloproteinase-9 expression, and collagen degradation in keratinocytes and mouse skin. Biochem J. 2019 May 21;476(10):1387-1400. WB ;Human. 31036716