bs-0634R **[Primary Antibody]**

Aquaporin 4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 361 **SWISS:** P55087

Target: Aquaporin 4

Immunogen: KLH conjugated synthetic peptide derived from human AQP4: 271-323/323. < 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 a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. The encoded protein is the predominant aquaporin found in brain. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

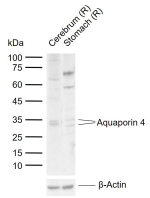
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow)

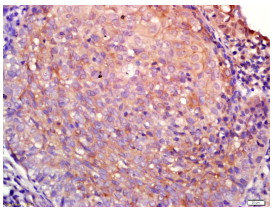
Predicted MW.: 36 kDa

Subcellular Location: Cell membrane

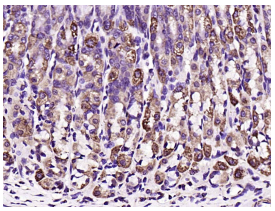
VALIDATION IMAGES



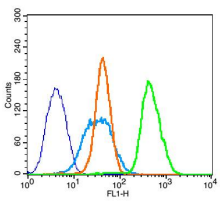
Sample: Lane 1: Rat Cerebrum tissue lysates Lane 2: Rat Stomach tissue lysates Primary: Anti-Aquaporin 4 (bs-0634R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kDa Observed band size: 34,32 kDa



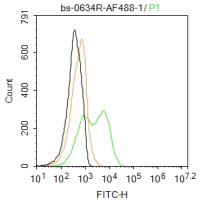
Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-AQP4 Polyclonal Antibody, Unconjugated(bs-0634R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Aquaporin 4) Polyclonal Antibody, Unconjugated (bs-0634R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: K562 (blue). Primary Antibody:Rabbit Anti-Aquaporin 4 antibody (bs-0634R,Green); Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells



Blank control:Molt4. Primary Antibody (green line): Rabbit Anti-AQP 4 antibody (bs-0634R-A488) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): 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.

were fixed with 2% paraformaldehyde for 10 min at 37°C. Primary antibody (bs-0634R, 1µg /1x10^6 cells) were incubated for 30 min at room temperature, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/FITC antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min at room temperature. Acquisition of 20,000 events was performed.

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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=6.42]** Cao et al. Hypertonic saline reduces lipopolysaccharide-induced mouse brain edema through inhibiting aquaporin 4 expression. (2012) Crit.Care. 16:R186 WB,FCM ;Mouse. 23036239
- **[IF=4.8]** Steven Tandean. et al. Chemical Composition and Neuroprotective Properties of Indonesian Stingless Bee (Geniotrigona thoracica) Propolis Extract in an In-Vivo Model of Intracerebral Hemorrhage (ICH). NUTRIENTS. 2024 Jan;16(12):1880 IHC ;Rat. 38931235
- **[IF=3.887]** Huijun LI. et al. Screening the effective components in treating dampness stagnancy due to spleen deficiency syndrome and elucidating the potential mechanism of Poria water extract. CHIN J NAT MEDICINES. 2023 Feb;21:83 WB ;Rat. 36871985
- **[IF=2.51]** Gang, Zhang, et al. "Detection of hypoxic-ischemic brain injury with 3D-enhanced T2* weighted angiography (ESWAN) imaging." European Journal of Radiology (2013). IHC ;="Pig". 23777745