

**AQP6 polyclonal antibody**

Catalog: BS32913

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Aquaporin-6: Aquaporins form homotetrameric trans-membrane channels, with each monomer independently mediating water transport across the plasma membrane along its osmotic gradient. Unlike classical aquaporins, AQP6 is an intracellular channel with selective anion permeability, particularly for nitrate, and exhibits very low water permeability (By similarity). It may also facilitate the transport of gases, such as CO₂ and NH₄(+), as demonstrated in vitro (By similarity)

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~29.4 kDa

Swiss-Prot:

Q13520

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of AQP6 protein

DATA:

Western blot analysis of Nephlin expression in HeLa (A), HEK293T (B), PC12 (C) whole cell lysates.

Immunohistochemical analysis of Nephlin staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of Nephlin staining in mouse kidney. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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