

AQP0 (C144) polyclonal antibody

Catalog: BS3508

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

AQP0 is the most abundant endogenous protein in the plasma membrane of lens fiber cells where it functions not only as a water pore, but it is also involved in fiber-fiber adhesion and is crucial for fiber cell structure and organization. AQP0 contains an additional pore constriction, not seen in any other aquaporin structures, which may be responsible for pore gating. The closed AQP0 pore holds just three water molecules, which are spaced too far apart to form hydrogen bonds with each other. The C-terminal domain of AQP0 undergoes extensive post-translational modification, including many truncations, during lens aging due to the actions of m-calpain, proteases or non-enzymatic mechanisms. These truncation sites may be involved in the development of cataracts.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 28 kDa

Swiss-Prot:

P30301

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

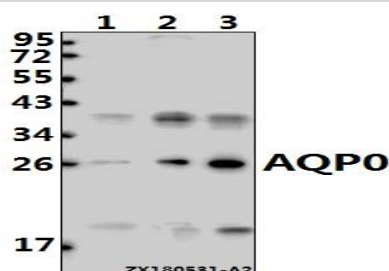
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

AQP0 (C144) polyclonal antibody detects endogenous levels of AQP0 protein.

DATA:

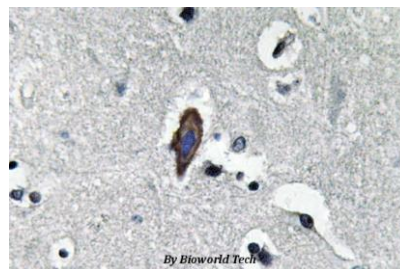


Western blot (WB) analysis of AQP0 (C144) pAb at 1:500 dilution

Lane1:THP-1 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:C6 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of AQP0 (C144) pAb in paraffin-embedded human brain tissue.

Note:

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

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