

Anti-AQP2(aquaporin 2) polyclonal Antibody

Cat. #: 60B143

Description:

The AQP2(aquaporin 2) is a water channel protein located in the kidney collecting tubule. It belongs to the MIP/aquaporin family, some members of which are clustered together on chromosome 12q13. In collecting duct cells, AQP2 trafficking to vasopressin-sensitive vesicles is phosphorylation-independent and phosphorylation of Ser-256 is necessary for expression of AQP2 in the apical membrane. The changes in urinary excretion of aquaporin-2 indicates circulatory blood volume depletion, and estimates the AVP-dependent recovery of circulatory blood volume during the therapeutic period in patients with diabetic ketoacidosis

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human AQP2(aquaporin 2)

References

Hirano, K., et al, *Am. J. Pathol.* 163 (1), 111-120 (2003)
gura, T., et al, *Horm. Res.* 59 (1), 30-34 (2003)
van Balkom, B.W., et al, *J. Biol. Chem.* 277 (44), 41473-41479 (2002)
Marr, N., et al, *J. Am. Soc. Nephrol.* 13 (9), 2267-2277 (2002)
Lin, S.H., et al, *J. Clin. Endocrinol. Metab.* 87 (6), 2694-2700 (2002)
Kusaka, I., et al, *Nephron* 91 (1), 167-169 (2002)
Marr, N., et al, *Hum. Mol. Genet.* 11 (7), 779-789 (2002)

Clone Number:

Isotype:

Species: human

Storage and Stability: at -20°C

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1 µg/ml for 2hrs)