

Anti-AQP2(Aquaporin-CD) Polyclonal Antibody

Cat. #: 60B813

Description:

The AQP2 (Aquaporin-CD) forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA). The Ser-256 phosphorylation is necessary and sufficient for expression at the apical membrane. Endocytosis is not phosphorylation-dependent. AQP2 belongs to the MIP/aquaporin (TC 1.A.8) family.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of mouse AQP2 (Aquaporin-CD) (Water channel protein for renal collecting duct) (ADH water channel) (Aquaporin 2) (Collecting duct water channel protein)

References

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Wang,W., et al, Am. J. Physiol. Renal Physiol. 290 (2), F530-F541 (2006)
Hong,M.E., et al, Transplant. Proc. 37 (10), 4254-4258 (2005)
Chara,O., et al, J. Membr. Biol. 207 (3), 143-150 (2005)
Ford,P., et al, Biol. Cell 97 (9), 687-697 (2005)
Tamma,G., et al, J. Cell. Sci. 118 (PT 16), 3623-3630 (2005)
Bouley,R., et al, Am. J. Physiol. Renal Physiol. 288 (6), F1103-F1112 (2005)

Species: mouse, rat

Storage and Stability: at -20oC

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 (1µg/ml for 2hrs)