

AQP2 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 26 | Source/Isotype: Rabbit | UniProt ID: #P41181 | Entrez-Gene Id: 359 | |
|------------------------------|----------------------|--|--|---|--|--|--|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | | |
| Storage | | Supplied in 10 mM so 20°C. Do not aliquot t | | 5), 150 mM NaCl, 100 μg | /ml BSA and 50% gl | ycerol. Store at – | |
| Specificity/Sensitivity | | AQP2 Antibody detects endogenous levels of total AQP2 protein. | | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln263 of human AQP2. Antibodies are purified by peptide affinity chromatography. | | | | | |
| Background | | a predominant role in are multiple pass tran across the plasma me through AQP12) and thological processes tregulation of overall variansport and excretion response to endocrining regulate osmotic water AQP2 (1,4). Mutations nephrogenic diabetes | controlling organists smembrane protein controlled the controlle | protein that forms water orm water homeostasis (1 ns that form homotetral irteen aquaporins have of small, hydrophobic p ermation, cell motility, fe (2). AQP2 tetramers form This transport protein is or pituitary hormones all by triggering phosphory ng AQP2 gene cause a re osomal dominant disord art, to either nonfunction | I). Members of the mers to facilitate the been indentified to troteins plays a role rtilization, cell junct water channels the play in the | aquaporin family e flow of water date (AQP0 in an array of iion formation and at facilitate water asma membrane is (AVP) and ADH uent exocytosis of s known as by abnormal water | |
| Background References | | 2. Verkman, A.S. and I 3. Kamsteeg, E.J. et al. 4. van Balkom, B.W. et | 1. Takata, K. et al. (2008) <i>Histochem Cell Biol</i> 130, 197-209. 2. Verkman, A.S. and Mitra, A.K. (2000) <i>Am J Physiol Renal Physiol</i> 278, F13-28. 3. Kamsteeg, E.J. et al. (2000) <i>J Cell Biol</i> 151, 919-30. 4. van Balkom, B.W. et al. (2002) <i>J Biol Chem</i> 277, 41473-9. 5. Loonen, A.J. et al. (2008) <i>Semin Nephrol</i> 28, 252-65. | | | | |
| Species Reactivit | v | Species reactivity is de | etermined by testin | α in at least one approve | ed application (e.g., | western blot). | |

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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