

## Anti-AQP2 (RABBIT) Antibody - 600-401-Y54

**Code:** 600-401-Y54

**Size:** 100 µg

**Product Description:** Anti-AQP2 (RABBIT) Antibody - 600-401-Y54

**Concentration:** 1 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	AQP2
<b>Species Reactivity</b>	Human, mouse, rat
<b>Buffer</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	None
<b>Preservative</b>	0.02% (w/v) Sodium Azide
<b>Storage Condition</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Synonyms</b>	AQP2 Antibody, AQP-CD, WCH-CD, Aquaporin-2, ADH water channel, AQP-2
<b>Application Note</b>	Anti-AQP2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 29 kDa in Western Blots of specific cell lysates and tissues.
<b>Background</b>	Aquaporins are membrane proteins that serve in the transfer of water and small solutes across cellular membranes. One such aquaporin, aquaporin-2 (AQP2) is located in the kidney collecting tubule and plays a critical role in water reabsorption (1). AQP2 is mainly localized in intracellular vesicles but upon stimulation with anti-diuretic hormone (ADH), AQP2 is translocated to the apical plasma membrane by exocytic fusion of AQP2-bearing vesicles (2). Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes insipidus (3).
<b>Purity And Specificity</b>	Anti-AQP2 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. AQP2 antibody is human, mouse and rat reactive. This antibody is predicted to not cross-react with other members of the aquaporin protein family.
<b>ELISA</b>	1:10,000-1:20,000
<b>Western Blot</b>	1 - 2 µg/mL
<b>Immunohistochemistry</b>	5 g/mL
<b>IF Microscopy</b>	20 g/mL
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Anti-AQP2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the C-terminus of human AQP2.

### Related Products

200-301-401	Anti-AKT (MOUSE) Monoclonal Antibody - 200-301-401
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
BSA-50	BOVINE SERUM ALBUMIN - Fraction V (Immunoglobulin and Protease Free) - BSA-50
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070

### Related Links

UniProtKB - P41181

<http://www.uniprot.org/uniprot/P41181>

GeneID - 359 <http://www.ncbi.nlm.nih.gov/gene/359>

NCBI - NP\_000477

### **Disclaimer**

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