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Datasheet for 600-401-Y54

AQUAPORIN 2 Antibody

Overview

Description:	Anti-Aquaporin 2 (RABBIT) Antibody - 600-401-Y54
Item No.:	600-401-Y54
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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. 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. Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes insipidus.
Synonyms:	AQP2 Antibody, AQP-CD, WCH-CD, Aquaporin-2, ADH water channel, AQP-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	AQP2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	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.

Purity/Specificity:	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.
Relevant Links:	• UniProtKB - P41181 • GeneID - 359 • NCBI - NP_000477

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1 - 2 µg/mL

Formulation

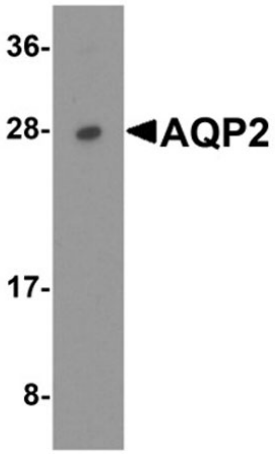
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

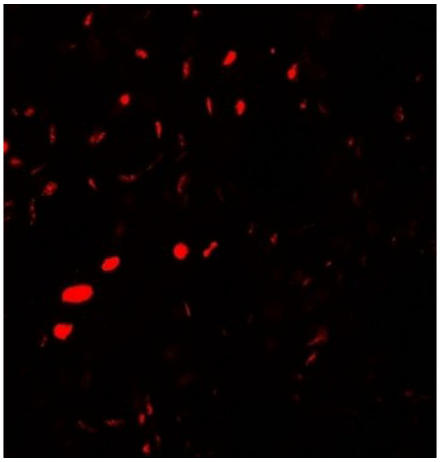
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

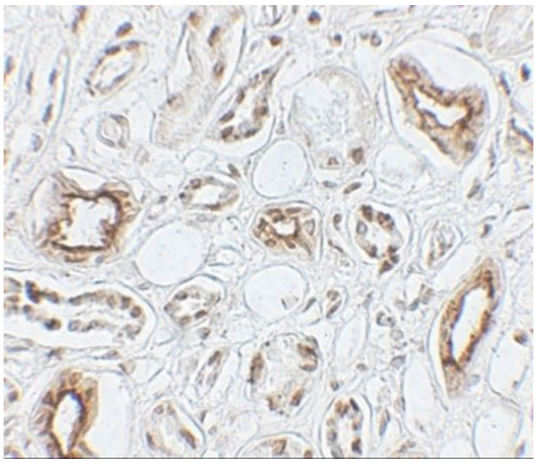
Images



Western Blot
Western blot of AQP2.
Load: A431 cell lysate.
Primary Antibody: AQP2 antibody at 1 µg/ml.



Immunofluorescence Microscopy
Immunofluorescence of AQP2.
Tissue: human kidney tissue.
Primary Antibody: AQP2 antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of AQP2.
Tissue: human kidney tissue.
Primary Antibody: AQP2 antibody at 5 µg/mL.

Disclaimer

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