

Rabbit AQP2 Polyclonal Antibody | anti-AQP2 antibody

AQP2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40626	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

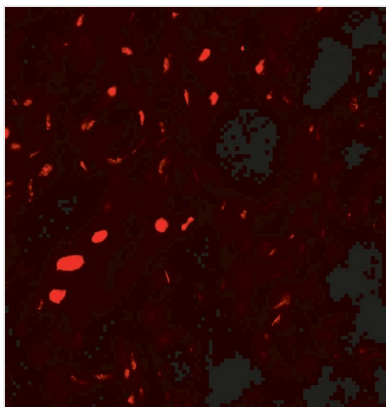
PRODUCT SYNONYMS

AQP2; Polyclonal Antibody; AQP2 Antibody; AQP-CD; WCH-CD; Aquaporin-2; ADH water channel; AQP-2; aquaporin 2 (collecting duct); anti-AQP2 antibody

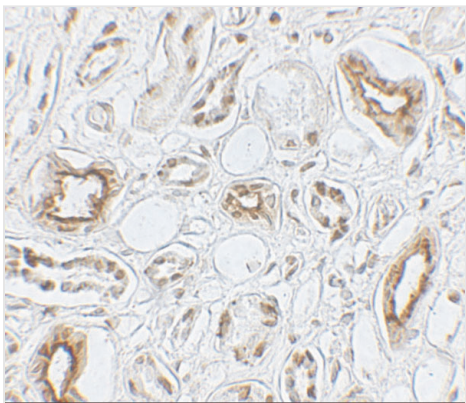
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AQP2 antibody is human, mouse and rat reactive. This antibody is predicted to not cross-react with other members of the aquaporin protein family.
Purity/Purification	AQP2 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	271
Applicable Applications for anti-AQP2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	AQP2 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human AQP2.
Buffer	AQP2 antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	AQP2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

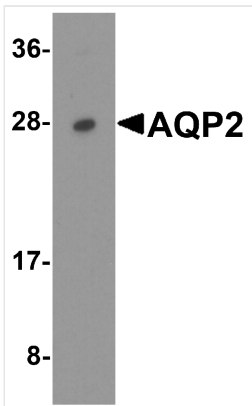
IMAGES



IF (Immunofluorescence)
Immunofluorescence of AQP2 in human kidney tissue with AQP2 antibody at 20 μg/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of AQP2 in human kidney tissue with AQP2 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of AQP2 in A431 cell lysate with AQP2 antibody at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-AQP2 antibody

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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502179
NCBI GeneID	359
NCBI Accession #	NP_000477
NCBI GenBank Nucleotide #	NM_000486.5
UniProt Accession #	P41181; Q9UD68
Molecular Weight	Predicted: 30 kDa Observed: 28 kDa
NCBI Official Full Name	aquaporin-2

NCBI Official Synonym Full Names	aquaporin 2 (collecting duct)
NCBI Official Symbol	AQP2
NCBI Official Synonym Symbols	AQP-CD; WCH-CD
NCBI Protein Information	aquaporin-2; AQP-2; aquaporin-CD; ADH water channel; water-channel aquaporin 2; collecting duct water channel protein; water channel protein for renal collecting duct
UniProt Protein Name	Aquaporin-2
UniProt Gene Name	AQP2
UniProt Synonym Gene Names	AQP-2; AQP-CD
UniProt Entry Name	AQP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/aqp2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40626>