

Rabbit Aquaporin 2 Polyclonal Antibody | anti-Aqp2 antibody

Aquaporin 2 Antibody: RPE

CATALOG # AAA103683	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Western Blot
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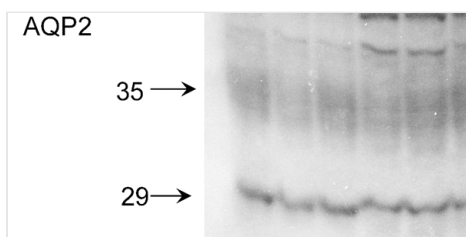
PRODUCT SYNONYMS

Aquaporin 2; Polyclonal Antibody; Aquaporin 2 Antibody: RPE; ADH water channel; AQP 2; AQP CD; AQP-2; AQP-CD; AQP2; AQP2_HUMAN; AQPCD; Aquaporin 2 collecting duct; Aquaporin CD; Aquaporin-2; Aquaporin-CD; Aquaporin2; Aquaporine 2; Collecting duct water channel protein; MGC34501; Water channel aquaporin 2; Water channel protein for renal collecting duct; WCH CD; WCH-CD; WCHCD; anti-Aqp2 antibody

PRODUCT SPECIFICATIONS

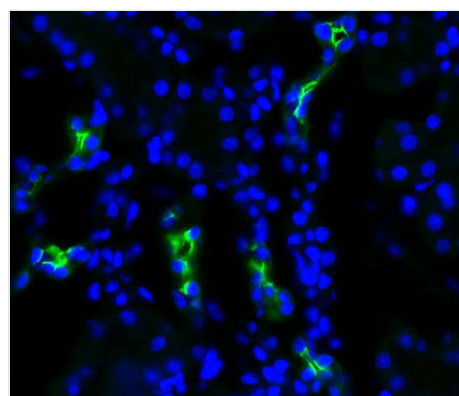
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	271
Applicable Applications for anti-Aqp2 antibody	IF (Immunofluorescence), WB (Western Blot)
Conjugate	RPE
Preparation and Storage	4 degree C

IMAGES



WB (Western Blot)

Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin 2 protein using Rabbit Anti-Aquaporin 2 Polyclonal Antibody (SPC-503). Primary Antibody: Rabbit Anti-Aquaporin 2 Polyclonal Antibody (SPC-503) at 1:2000. Showing glycosylated and non-glycosylated bands.



IHC (Immunohistochemistry)

Immunohistochemistry analysis using Rabbit Anti-Aquaporin 2 Polyclonal Antibody (SPC-503). Tissue: kidney tissue. Species: Rat. Fixation: 4% paraformaldehyde-lysine-periodate. Primary Antibody: Rabbit Anti-Aquaporin 2 Polyclonal Antibody (SPC-503) at 1:200 for 75 min at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) for 1 hour at RT. 4 um cryostat sections.

ADDITIONAL INFORMATION

Related Product Information for anti-Aqp2 antibody	Background Info: Detects ~28.8kDa. May detect larger glycosylated bands ~35-50kDa. Scientific Background: Aquaporins selectively conduct water molecules in and out of the cell, while preventing the passage of ions and other solutes. Known as water channels, they are integral membrane pore proteins (1, 2). Aquaporin 2 is the vasopressin-regulated water channel of the apical membrane of collecting duct cells. It is located in kidney epithelial cells and usually lies dormant in intracellular vesicle membranes. When it is needed vasopressin binds to the cell surface vasopressin receptor, activating a signaling pathway that cause AQP2 containing vesicles to fuse with the plasma membrane so the AQP2 can be used by the cell (3). Defects in AQP2 area cause of an autosomal dominant form of nephrogenic diabetes insipidus (NDI) (4).
Product Categories/Family for anti-Aqp2 antibody	Ion Channels and Transporters
References	1. Gonen T., Walz T. (2006) Q. Rev. Biophys. 39(4): 361-

NCBI AND UNIPROT INFORMATION

NCBI GI #	77539434
NCBI GeneID	25386
NCBI Accession #	NP_037041.2
NCBI GenBank Nucleotide #	NM_012909.2
UniProt Accession #	P34080; A1A5L4
Molecular Weight	28,931 Da
NCBI Official Full Name	aquaporin-2
NCBI Official Synonym Full Names	aquaporin 2 (collecting duct)
NCBI Official Symbol	Aqp2
NCBI Official Synonym Symbols	AQP-2; aquaporin-2
NCBI Protein Information	aquaporin-2; AQP-CD; WCH-CD; aquaporin-CD; ADH water channel; 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_RAT

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/aquaporin-2-antibody-immunofluorescence-western-blot-elisa/103683>