Rabbit Aquaporin 1 Polyclonal Antibody | anti-Aqp1 antibody

Aquaporin 1 Antibody: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103518	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

Aquaporin 1; Polyclonal Antibody; Aquaporin 1 Antibody: RPE; AQP1; AQP 1; AQP CHIP; AQP-1; AQP1_HUMAN; Aquaporin CHIP; Aquaporin-1; Aquaporin-CHIP; Aquaporin1; Channel forming integral protein 28kDa; Channel like integral membrane protein 28 kDa; CHIP 28; CHIP28; CO; Colton blood group; Growth factor induced delayed early response protein; MGC26324; Urine water channel; Water channel protein CHIP 29; Water channel protein CHIP29; Water channel protein for red blood cells and kidney proximal tubule; anti-Aqp1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	269
Applicable Applications for anti-Aqp1 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 1 protein using Rabbit Anti-Aquaporin 1 Polyclonal Antibody (SPC-502). Primary Antibody: Rabbit Anti-Aquaporin 1 Polyclonal Antibody (SPC-502) at 1:2000. Showing glycosylated and non-glycosylated bands.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Rabbit Anti-Aquaporin 1 Polyclonal Antibody (SPC-502). Tissue: kidney tissue. Species: Rat. Fixation: 4% paraformaldehyde-lysine-periodate. Primary Antibody: Rabbit Anti-Aquaporin 1 Polyclonal Antibody (SPC-502) 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-Aqp1 antibody	**Background Info:** Detects ~28.5kDa. 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). Aquarporin 1 is a widely expressed water channel, found in the basolateral and apical plasma membranes of the proximal tubes, the descending loop of Henel and in the descending portion of the vasa recta. Additionally it is found in red blood cells, vascular endothelium, gastrointestinal tract, sweat glands and lungs. It is not regulated by vasopressin (3).

Product Categories/Family for anti-Aqp1 antibody	Ion Channels and Transporters
References	1. Gonen T., Walz T. (2006) Q. Rev. Biophys. 39(4): 361-396. 2. Knepper M.A. (1994) Proc Natl. Acad Sci. USA. 91(14): 6255-6258. 3. www.vivo.colostate.edu/hbooks/molecules/aqu aporins.html

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978527
NCBI GeneID	25240
NCBI Accession #	NP_036910.1
NCBI GenBank Nucleotide #	NM_012778.1
UniProt Accession #	P29975; Q5EB50; Q7TN36
Molecular Weight	28,857 Da
NCBI Official Full Name	aquaporin-1
NCBI Official Synonym Full Names	aquaporin 1
NCBI Official Symbol	Aqp1
NCBI Official Synonym Symbols	CHIP28
NCBI Protein Information	aquaporin-1; AQP-1; aquaporin-CHIP; Aquaporin 1 (aquaporin channel forming integral protein 28 (CHIP)); water channel protein for red blood cells and kidney proximal tubule
UniProt Protein Name	Aquaporin-1
UniProt Gene Name	**Aqp1**
UniProt Synonym Gene Names	Chip28; AQP-1
UniProt Entry Name	AQP1_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.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/aquaporin-1-antibody-immunofluorescence-western-blot-elisa/103518