Rabbit Aquaporin 3 Polyclonal Antibody | anti-Aqp3 antibody

Aquaporin 3 Antibody: ATTO 594

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103578	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

Aquaporin 3; Polyclonal Antibody; Aquaporin 3 Antibody: ATTO 594; AQP3; Aquaporin 3 (GIL blood group); GIL; anti-Aqp3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	292
Applicable Applications for anti-Aqp3 antibody	IF (Immunofluorescence), WB (Western Blot)
Conjugate	ATTO 594
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES

WB (Western Blot)
Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin 3 protein using Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504). Primary Antibody: Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504) at 1:2000.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504). Tissue: kidney tissue. Species: Rat. Fixation: 4% paraformaldehyde-lysine-periodate. Primary Antibody: Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504) 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-Aqp3 antibody	**Background Info:** Detects ~31.5kDa. 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). Aquaporin 3 is found in the basolateral cell membrane of principal collecting duct cells and provide a pathway for water to exit these cells (3). AQP3 gene expression is not regulated by vasopressin (4).
Product Categories/Family for anti-Aqp3 antibody	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. Sasaki S., Ishibashi K., and Marumo F. (1998) Annu Rev Physiol. 60: 199-220. 4. Dibas A.I., Mia A.J., Yorio T. (1998) Proc Soc Exp Med. 219(3): 183-199.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13928980
NCBI GeneID	65133
NCBI Accession #	NP_113891.1
NCBI GenBank Nucleotide #	NM_031703.1
UniProt Accession #	P47862; A0JPL5
Molecular Weight	31,384 Da
NCBI Official Full Name	aquaporin-3
NCBI Official Synonym Full Names	aquaporin 3
NCBI Official Symbol	Aqp3
NCBI Protein Information	aquaporin-3; AQP-3; aquaglyceroporin-3; 31.4 kDa water channel protein
UniProt Protein Name	Aquaporin-3
UniProt Gene Name	**Aqp3**
UniProt Synonym Gene Names	AQP-3
UniProt Entry Name	AQP3_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-3-antibody-immunofluorescence-western-blot-elisa/103578