Rabbit AQP1 Polyclonal Antibody | anti-AQP1 antibody

AQP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321893	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry, Western Blot**

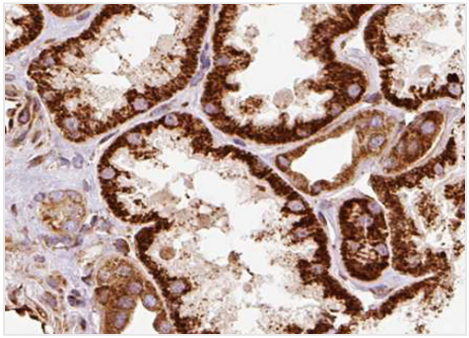
PRODUCT SYNONYMS

AQP1; Polyclonal Antibody; AQP1 Antibody; AQP 1; AQP CHIP; AQP-1; AQP1_HUMAN; aquaporin 1 (channel-forming integral protein; 28kDa; CO blood group); aquaporin 1 (Colton blood group); 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

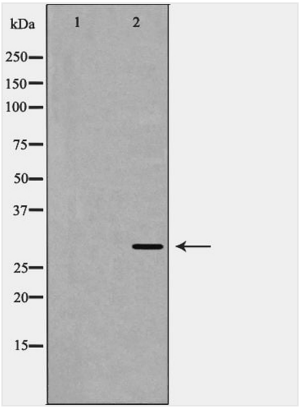
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AQP1 antibody detects endogenous levels of total AQP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	269
Applicable Applications for anti-AQP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AQP1
Subcellular Location	Membrane.
Tissue Specificity	Detected in erythrocytes (at protein level). Expressed in a number of tissues including erythrocytes, renal tubules, retinal pigment epithelium, heart, lung, skeletal muscle, kidney and pancreas. Weakly expressed in brain, placenta and liver.
Predicted Cross Reactivity	**Horse, Dog**
Similarity	Horse (80%), Dog (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA321893 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of AQP1 expression in rat brain, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-AQP1 antibody	Description: Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Subunit Structure: Homotetramer. Interacts with EPHB2; involved in endolymph production in the inner ear (By similarity). Identified in a complex with STOM. Similarity: Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA). Belongs to the MIP/aquaporin (TC 1.A.8) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37694062
NCBI GeneID	358
NCBI Accession #	NP_932766.1
NCBI GenBank Nucleotide #	NM_198098.3
UniProt Accession #	P29972; Q8TBI5; Q8TDC1; B5BU39; E7EM69; E9PC21; F5GY19
Molecular Weight	Observed: 29 kDa Predicted: 29 kDa
NCBI Official Full Name	aquaporin-1 isoform 1
NCBI Official Synonym Full Names	aquaporin 1 (Colton blood group)
NCBI Official Symbol	AQP1
NCBI Official Synonym Symbols	CO; CHIP28; AQP-CHIP
NCBI Protein Information	aquaporin-1
UniProt Protein Name	Aquaporin-1
UniProt Gene Name	**AQP1**
UniProt Synonym Gene Names	CHIP28; AQP-1

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/aqp1-antibody-immunohistochemistry-western-blot-elisa/321893