

Aquaporin 1 Polyclonal Antibody | anti-AQP1 antibody

Anti-Aquaporin 1 Antibody

CATALOG # AAA46365	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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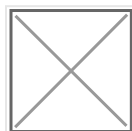
PRODUCT SYNONYMS

Aquaporin 1; Polyclonal Antibody; Anti-Aquaporin 1 Antibody; Aquaporin-1; AQP 1; AQP CHIP; AQP-1; AQP1; AQP1_HUMAN; Aquaporin CHIP; 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; aquaporin 1; anti-AQP1 antibody

PRODUCT SPECIFICATIONS

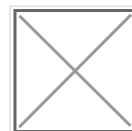
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	186
Applicable Applications for anti-AQP1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Aquaporin 1 (240-269aa DRVKVTSGQVEEYDLADDINSRVEMKPK), different from the related mouse and rat sequences by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



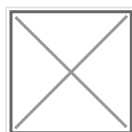
IHC (Immunohistochemistry)

Anti- Aquaporin 1 Picoband antibody, AAA46365, IHC(P)IHC(P): Human Intestinal Cancer Tissue



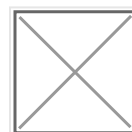
IHC (Immunohistochemistry)

Anti- Aquaporin 1 Picoband antibody, AAA46365, IHC(P)IHC(P): Rat Kidney Tissue



IHC (Immunohistochemistry)

Anti- Aquaporin 1 Picoband antibody, AAA46365, IHC(P)IHC(P): Mouse Kidney Tissue



WB (Western Blot)

Anti- Aquaporin 1 Picoband antibody, AAA46365, Western blottingAll lanes: Anti Aquaporin 1 (AAA46365) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Rat Lung Tissue Lysate at 50ugLane 3: Rat Cardiac Muscle Tissue Lysate at 50ugLane 4: PC-12 Whole Cell Lysate at 40ugLane 5: HEPA Whole Cell Lysate at 40ugPredicted bind size: 29KDObserved bind size: 29KD

ADDITIONAL INFORMATION

Related Product Information for anti-AQP1 antibody	Description: Rabbit IgG polyclonal antibody for Aquaporin-1(AQP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Aquaporin 1 is a 28-kD integral protein thought at first to be a breakdown product of the Rh polypeptide but was later shown to be a unique molecule that is abundant in erythrocytes and renal tubules. AQP1 is also expressed by the choroid plexus and various other tissues. It 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.
References	1. Denker, B. M.; Smith, B. L.; Kuhajda, F. P.; Agre, P. : Identification, purification, and partial characterization of a novel M(r) 28,000 integral membrane protein from erythrocytes and renal tubules. J. Biol. Chem. 263: 15634-15642, 1988. 2. Thiagarajah, J. R.; Verkman, A. S. : Aquaporin deletion in mice reduces corneal water permeability and delays restoration of transparency after swelling. J. Biol. Chem. 277: 19139-19144, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	297307116
NCBI GeneID	358
NCBI Accession #	NP_001171989.1
NCBI GenBank Nucleotide #	NM_001185060.1
UniProt Accession #	P29972; Q8TBI5; Q8TDC1; B5BU39; E7EM69; E9PC21; F5GY19
Molecular Weight	16,677 Da
NCBI Official Full Name	aquaporin-1 isoform 2
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
UniProt Entry Name	AQP1_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.