

## Rabbit AQP1 Polyclonal Antibody | anti-AQP1 antibody

AQP1 Antibody

|                               |                       |                                        |                                            |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA324465</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|

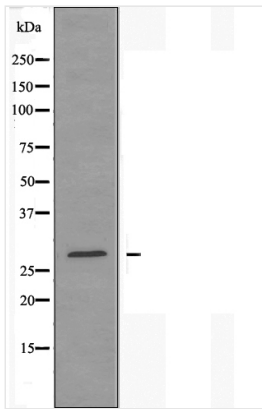
### PRODUCT SYNONYMS

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

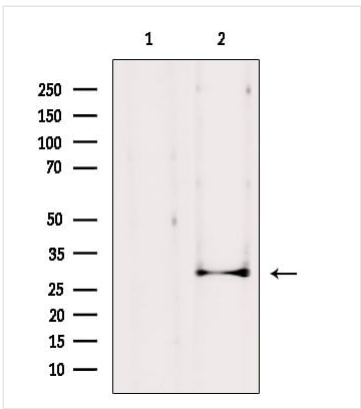
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>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, WB (Western Blot)                                                                                                                                                                                                                           |
| Immunogen                                      | A synthesized peptide                                                                                                                                                                                                                              |
| 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. |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                       |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                  |

IMAGES



**WB (Western Blot)**  
Western blot analysis of extracts from rat brain cells, using AQP1 antibody.



**WB (Western Blot)**  
Western blot analysis of extracts from HepG2, using AQP1 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Related Product Information for anti-AQP1 antibody</b> | <p>Function: 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.</p> <p>Subunit Structure: Homotetramer. Interacts with EPHB2; involved in endolymph production in the inner ear (By similarity). Identified in a complex with STOM.</p> <p>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.</p> |
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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 kD<br>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                | <b>AQP1</b>                                            |
| 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.