

# Anti-AQP1 / Aquaporin 1 Antibody

Rabbit Anti Human Polyclonal Antibody  
Catalog # ALS18207

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC-P, E           |
| <b>Primary Accession</b> | <a href="#">P29972</a> |
| <b>Predicted</b>         | Human                  |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Polyclonal             |
| <b>Isotype</b>           | IgG                    |
| <b>Calculated MW</b>     | 28526                  |

## Additional Information

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|-------------------------------------|--|
| <b>Gene ID</b>                      | 358  |
| <b>Alias Symbol</b>                 | AQP1   |
| <b>Other Names</b>                  | AQP1, Aquaporin-1, AQP-1, AQP-CHIP, Aquaporin 1, Aquaporin-CHIP, CHIP28, Colton blood group, Urine water channel, CO |
| <b>Target/Specificity</b>           | Human AQP1 / Aquaporin 1   |
| <b>Reconstitution &amp; Storage</b> | Caprylic acid and ammonium sulfate precipitation   |
| <b>Precautions</b>                  | Anti-AQP1 / Aquaporin 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|-----------------|---|
| <b>Name</b>     | AQP1 ( <a href="#">HGNC:633</a> )   |
| <b>Function</b> | Forms a water channel that facilitates the transport of water across cell membranes, playing a crucial role in water homeostasis in various tissues (PubMed: <a href="#">1373524</a> , PubMed: <a href="#">23219802</a> ). Could also be permeable to small solutes including hydrogen peroxide, glycerol and gases such as ammonia (NH <sub>3</sub> ), nitric oxide (NO) and carbon dioxide (CO <sub>2</sub> ) (PubMed: <a href="#">16682607</a> , PubMed: <a href="#">17012249</a> , PubMed: <a href="#">19273840</a> , PubMed: <a href="#">33028705</a> , PubMed: <a href="#">8584435</a> ). Recruited to the ankyrin-1 complex, a multiprotein complex of the erythrocyte membrane, it could be part of a CO <sub>2</sub> metabolon, linking facilitated diffusion of CO <sub>2</sub> across the membrane, anion exchange of Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> and interconversion of dissolved CO <sub>2</sub> and carbonic acid in the cytosol (PubMed: <a href="#">17012249</a> , PubMed: <a href="#">35835865</a> ). In vitro, it shows non-selective gated cation channel activity and may be permeable to cations like K <sup>+</sup> and Na <sup>+</sup> in vivo (PubMed: <a href="#">36949749</a> , PubMed: <a href="#">8703053</a> ). |

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.