

AQP1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17893b**Specification**

AQP1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P29972](#)**AQP1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 358**Other Names**

Aquaporin-1, AQP-1, Aquaporin-CHIP, Urine water channel, Water channel protein for red blood cells and kidney proximal tubule, AQP1, CHIP28

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AQP1 Antibody (C-term) Blocking Peptide - Protein Information**Name** AQP1 ([HGNC:633](#))**Synonyms** CHIP28**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 (PubMed:<http://www.uniprot.org/citations/1373524> target="_blank">1373524). Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane (PubMed:<http://www.uniprot.org/citations/35835865> target="_blank">35835865).**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

AQP1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

AQP1 Antibody (C-term) Blocking Peptide - Images**AQP1 Antibody (C-term) Blocking Peptide - Background**

Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. The protein physically resembles channel proteins and is abundant in erythrocytes and renal tubules. The gene encoding this aquaporin is a possible candidate for disorders involving imbalance in ocular fluid movement. Several transcript variants encoding different isoforms have been found for this gene.

AQP1 Antibody (C-term) Blocking Peptide - References

Chen, L.M., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 299 (5), R1163-R1174 (2010) :Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Shankardas, J., et al. Mol. Vis. 16, 1538-1548 (2010) :Halverson, G.R., et al. Immunohematology 26(1):22-26(2010) Sui, H., et al. Nature 414(6866):872-878(2001)