

Anti-AQP1 / Aquaporin 1 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18254

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P29972
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28526
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	358
Alias Symbol Other Names	AQP1 AQP1, Aquaporin-1, AQP-1, AQP-CHIP, Aquaporin 1, Aquaporin-CHIP, CHIP28, Colton blood group, Urine water channel, CO
Target/Specificity	Human, mouse, rat. No cross reactivity with other proteins.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-AQP1 / Aquaporin 1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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

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'.