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Anti-AQP1 / Aquaporin 1 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18207

Product Information

Application	WB, IHC-P, E
Primary Accession	P29972
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	28526

Additional Information

Gene ID	358
Alias Symbol	AQP1
Other Names	AQP1, Aquaporin-1, AQP-1, AQP-CHIP, Aquaporin 1, Aquaporin-CHIP, CHIP28, Colton blood group, Urine water channel, CO
Target/Specificity	Human AQP1 / Aquaporin 1
Reconstitution & Storage	Caprylic acid and ammonium sulfate precipitation
Precautions	Anti-AQP1 / Aquaporin 1 Antibody 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 amonnia (NH3), nitric oxide (NO) and carbon dioxide (CO2) (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 CO2 metabolon, linking facilitated diffusion of CO2 across the membrane, anion exchange of Cl(-)/HCO3(-) and interconversion of dissolved CO2 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'.