

AQP1 / Aquaporin 1 Antibody (clone 1F3)
Mouse Monoclonal Antibody
Catalog # ALS16986**Specification**

AQP1 / Aquaporin 1 Antibody (clone 1F3) - Product Information

Application	IHC, WB, FC
Primary Accession	P29972
Other Accession	358
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	28526

AQP1 / Aquaporin 1 Antibody (clone 1F3) - Additional Information**Gene ID** 358**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

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

Precautions

AQP1 / Aquaporin 1 Antibody (clone 1F3) is for research use only and not for use in diagnostic or therapeutic procedures.

AQP1 / Aquaporin 1 Antibody (clone 1F3) - 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:1373524). Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane (PubMed: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

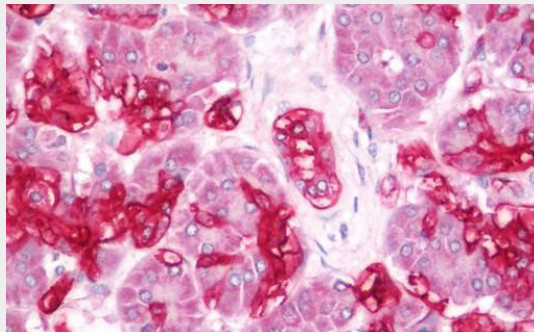
Volume

50 µl

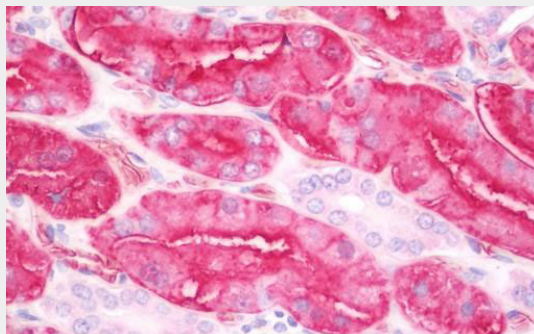
AQP1 / Aquaporin 1 Antibody (clone 1F3) - Protocols

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

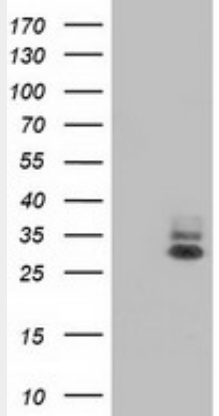
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AQP1 / Aquaporin 1 Antibody (clone 1F3) - Images

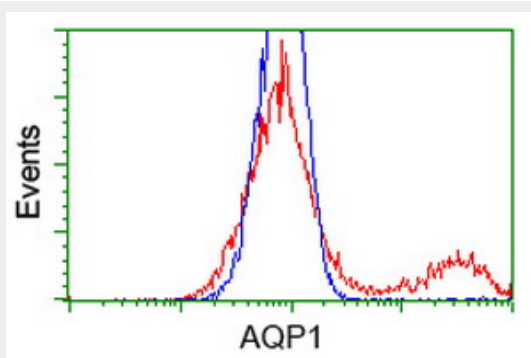
Anti-AQP1 / Aquaporin 1 antibody IHC staining of human pancreas.



Anti-AQP1 / Aquaporin 1 antibody IHC staining of human kidney.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AQP1...



HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid...

AQP1 / Aquaporin 1 Antibody (clone 1F3) - Background

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.

AQP1 / Aquaporin 1 Antibody (clone 1F3) - References

- Preston G.M., et al. Proc. Natl. Acad. Sci. U.S.A. 88:11110-11114(1991).
- Moon C., et al. J. Biol. Chem. 268:15772-15778(1993).
- Ruiz A.C., et al. Biochim. Biophys. Acta 1282:174-178(1996).
- Li X., et al. Biochem. Mol. Biol. Int. 32:371-377(1994).
- Ota T., et al. Nat. Genet. 36:40-45(2004).