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AQP1 / Aquaporin 1 Antibody (aa101-150)

Rabbit Polyclonal Antibody
Catalog # ALS15802

Specification

AQP1 / Aquaporin 1 Antibody (aa101-150) - Product Information

Application	**IHC, WB**
Primary Accession	P29972
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**29kDa KDa**

AQP1 / Aquaporin 1 Antibody (aa101-150) - 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

Target/Specificity
AQP1 Antibody detects endogenous levels of total AQP1 protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
AQP1 / Aquaporin 1 Antibody (aa101-150) is for research use only and not for use in diagnostic or therapeutic procedures.

AQP1 / Aquaporin 1 Antibody (aa101-150) - 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

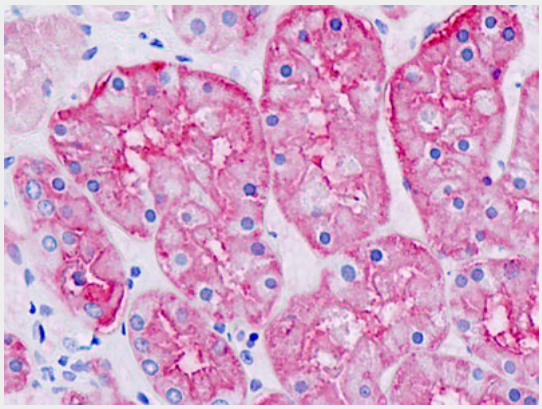
Volume
50 µl

AQP1 / Aquaporin 1 Antibody (aa101-150) - Protocols

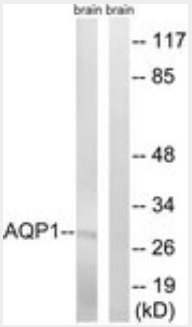
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AQP1 / Aquaporin 1 Antibody (aa101-150) - Images



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



Western blot of extracts from rat brain cells, using AQP1 Antibody.

AQP1 / Aquaporin 1 Antibody (aa101-150) - 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 (aa101-150) - References

Preston G.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:11110-11114(1991).
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Li X.,et al.Biochem. Mol. Biol. Int. 32:371-377(1994).
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