

**AQP2 / Aquaporin 2 Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11950****Specification**

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**AQP2 / Aquaporin 2 Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">P41181</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29kDa KDa

**AQP2 / Aquaporin 2 Antibody (N-Terminus) - Additional Information****Gene ID** 359**Other Names**

Aquaporin-2, AQP-2, ADH water channel, Aquaporin-CD, AQP-CD, Collecting duct water channel protein, WCH-CD, Water channel protein for renal collecting duct, AQP2

**Target/Specificity**

synthetic peptide corresponding to N-terminal residues of human AQP2(aquaporin 2)

**Reconstitution & Storage**

+4°C or -20°C, Avoid repeated freezing and thawing.

**Precautions**

AQP2 / Aquaporin 2 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**AQP2 / Aquaporin 2 Antibody (N-Terminus) - Protein Information****Name** AQP2 ([HGNC:634](#))**Function**

Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient (PubMed: [15509592](http://www.uniprot.org/citations/15509592)), PubMed: [7510718](http://www.uniprot.org/citations/7510718), PubMed: [7524315](http://www.uniprot.org/citations/7524315), PubMed: [8140421](http://www.uniprot.org/citations/8140421), PubMed: [8584435](http://www.uniprot.org/citations/8584435)). Plays an essential role in renal water homeostasis (PubMed: [15509592](http://www.uniprot.org/citations/15509592), PubMed: [7524315](http://www.uniprot.org/citations/7524315), PubMed: [8140421](http://www.uniprot.org/citations/8140421)). Could also be permeable to glycerol (PubMed: [8584435](http://www.uniprot.org/citations/8584435))

target="\_blank">8584435</a>).

#### Cellular Location

Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P34080}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Note=Shuttles from vesicles to the apical membrane (PubMed:15509592). Vasopressin-regulated phosphorylation is required for translocation to the apical cell membrane (PubMed:15509592). PLEKHA8/FAPP2 is required to transport AQP2 from the TGN to sites where AQP2 is phosphorylated (By similarity) {ECO:0000250|UniProtKB:P34080, ECO:0000269|PubMed:15509592}

#### Tissue Location

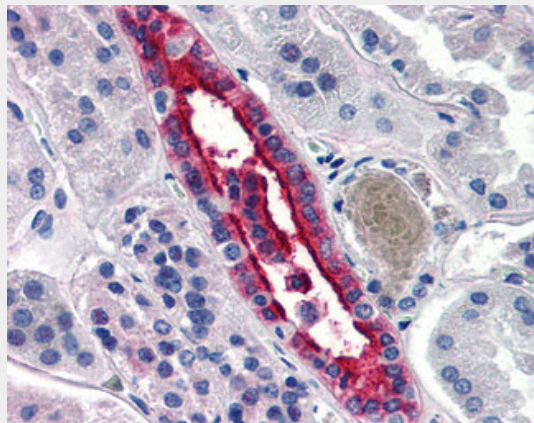
Expressed in collecting tubules in kidney medulla (at protein level) (PubMed:7510718). Detected in kidney (PubMed:7510718).

### AQP2 / Aquaporin 2 Antibody (N-Terminus) - 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](#)

### AQP2 / Aquaporin 2 Antibody (N-Terminus) - Images



Anti-AQP2 antibody IHC of human kidney.

### AQP2 / Aquaporin 2 Antibody (N-Terminus) - Background

Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

### AQP2 / Aquaporin 2 Antibody (N-Terminus) - References

Deen P.M.T.,et al.Science 264:92-94(1994).  
Uchida S.,et al.J. Biol. Chem. 269:23451-23455(1994).  
van Lieburg A.F.,et al.Am. J. Hum. Genet. 55:648-652(1994).  
Sasaki S.,et al.J. Clin. Invest. 93:1250-1256(1994).  
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