

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

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

Application	IHC
Primary Accession	P41181
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**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:8140421, PubMed:7524315, PubMed:7510718, PubMed:15509592). Plays an essential role in renal water homeostasis (PubMed:8140421, PubMed:7524315, PubMed:15509592).

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

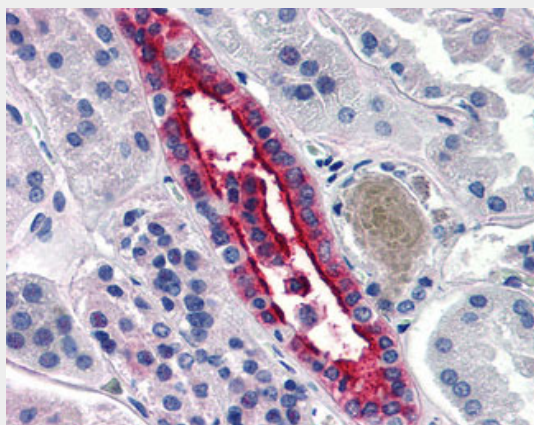
Expressed in collecting tubules in kidney medulla (at protein level) (PubMed:7510718). Detected in kidney (PubMed:7510718).

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).
Marr N.,et al.Hum. Mol. Genet. 11:779-789(2002).