

Product datasheet for **AP08304PU-N**

Aquaporin 2 (AQP2) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1 µg/ml. Immunohistochemistry on Paraffin Sections: 20 µg/ml. Western Blot: 1 µg/ml.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to N-terminal residues of Human Aquaporin 2.
Specificity:	This antibody recognizes Aquaporin 2 (N-term).
Formulation:	PBS containing 0.01% Sodium Azide as preservative and 50% Glycerol as stabilizer. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	aquaporin 2
Database Link:	Entrez Gene 359 Human P41181



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Background:

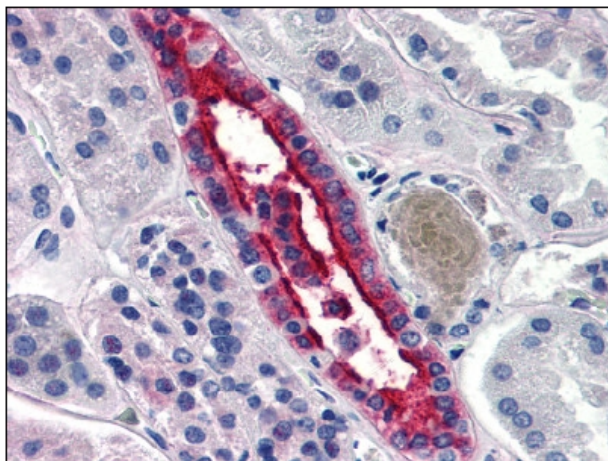
Water is a critical component of all living cells. Interestingly, tissue membranes show a great degree of water permeability. Mammalian red cells, renal proximal tubules, and descending thin limb of Henle are extraordinarily permeable to water. Water crosses hydrophobic plasma membranes either by simple diffusion or through a facilitative transport mechanism mediated by special protein aquaporins. Aquaporin 0, and Aquaporin 1 have been the foundation of the growing family of aquaporins. The lens specific Aquaporin 0 represents up to 80% of total lens membrane protein. Defects in Aquaporin 0 are a cause of autosomal dominant cataract. The lens opacity mutation is an AA substitution that inhibits targeting of MIP to the cell membrane. Human Aquaporin 0 is a 263 amino acid transmembrane protein belonging to the MIP family. Aquaporin families of proteins are predicted to contain six transmembrane domains. The N and C terminus are predicted to be cytoplasmic. Aquaporin 2 is located in the collecting tubule.

Synonyms:

Aquaporin-CD, AQP-CD, WCH-CD

Note:

Predicted Molecular Weight: 29 kDa.

Product images:

Kidney: Formalin-Fixed Paraffin Embedded (FFPE)