

AQP3 / Aquaporin 3 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS15342**Specification**

AQP3 / Aquaporin 3 Antibody - Product Information

Application	IF, IHC
Primary Accession	Q92482
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32kDa KDa

AQP3 / Aquaporin 3 Antibody - Additional Information**Gene ID** 360**Other Names**

Aquaporin-3, AQP-3, Aquaglyceroporin-3, AQP3

Target/Specificity

Detects ~31.5kDa. Glycosylated bands ~35-50kDa.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

AQP3 / Aquaporin 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

AQP3 / Aquaporin 3 Antibody - Protein Information**Name** AQP3**Function**

Water channel required to promote glycerol permeability and water transport across cell membranes (PubMed: [12239222](http://www.uniprot.org/citations/12239222), PubMed: [30420639](http://www.uniprot.org/citations/30420639)). Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P47862}. Basolateral cell

membrane {ECO:0000250|UniProtKB:P47862}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P47862}

Tissue Location

Widely expressed in epithelial cells of kidney (collecting ducts) and airways, in keratinocytes, immature dendritic cells and erythrocytes. Isoform 2 is not detectable in erythrocytes at the protein level

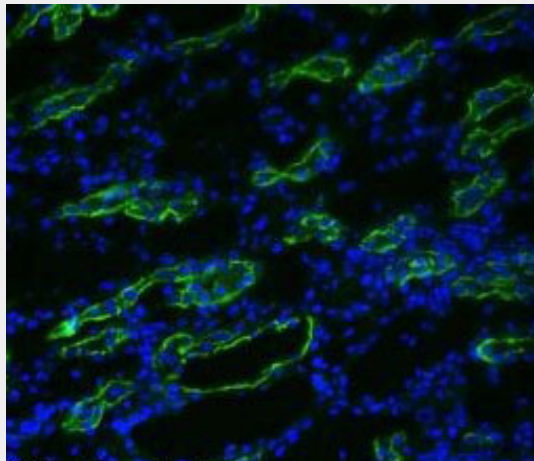
Volume

500 µl

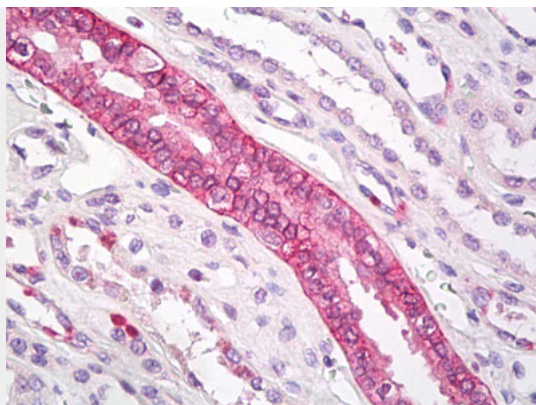
AQP3 / Aquaporin 3 Antibody - Protocols

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

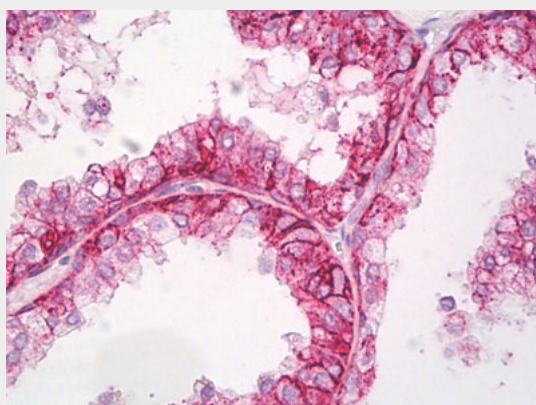
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AQP3 / Aquaporin 3 Antibody - Images

IF analysis of Aquaporin 3 in rat kidney tissues using a 1 in 200 dilution of AQP3 / Aquaporin 3...



Anti-AQP3 / Aquaporin 3 antibody IHC of human kidney.



Anti-AQP3 / Aquaporin 3 antibody IHC of human prostate.

AQP3 / Aquaporin 3 Antibody - Background

Water channel required to promote glycerol permeability and water transport across cell membranes. Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism (By similarity).

AQP3 / Aquaporin 3 Antibody - References

Ishibashi K., et al. Genomics 27:352-354(1995).
Ishibashi K., et al. Submitted (OCT-1996) to the EMBL/GenBank/DDBJ databases.
Roudier N., et al. J. Biol. Chem. 277:45854-45859(2002).
Halleck A., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.