

**AQP3 / Aquaporin 3 Antibody (aa74-292)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS17039****Specification**

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**AQP3 / Aquaporin 3 Antibody (aa74-292) - Product Information**

Application	IHC
Primary Accession	<a href="#">O92482</a>
Other Accession	<a href="#">360</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	31544

**AQP3 / Aquaporin 3 Antibody (aa74-292) - Additional Information****Gene ID** 360**Other Names**

AQP3, Aquaporin 3 (GIL blood group), Aquaglyceroporin-3, AQP-3, Aquaporin 3, Aquaporin 3 (Gill blood group), Aquaporin-3, GIL

**Target/Specificity**

Human AQP3 / Aquaporin 3

**Reconstitution & Storage**

PBS, pH 7, 20% glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

**Precautions**

AQP3 / Aquaporin 3 Antibody (aa74-292) is for research use only and not for use in diagnostic or therapeutic procedures.

**AQP3 / Aquaporin 3 Antibody (aa74-292) - 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**

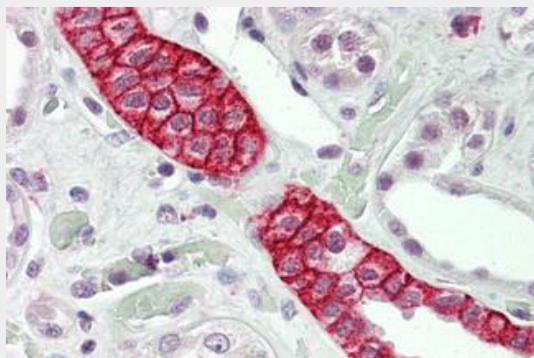
50 µl

### **AQP3 / Aquaporin 3 Antibody (aa74-292) - 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 (aa74-292) - Images**



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

### **AQP3 / Aquaporin 3 Antibody (aa74-292) - 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 (aa74-292) - 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.  
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.