

Aquaporin 3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50990**Specification**

Aquaporin 3 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	Q92482
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32 KDa

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

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

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

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

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](#)

Aquaporin 3 Antibody - Images

Aquaporin 3 Antibody - Background

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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.