

Anti-Aquaporin 3 Antibody
Rabbit polyclonal antibody to Aquaporin 3
Catalog # AP61506**Specification**

Anti-Aquaporin 3 Antibody - Product Information

Application	WB
Primary Accession	O92482
Other Accession	Q8R2N1
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31544

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

Aquaporin-3; AQP-3; Aquaglyceroporin-3

Target/Specificity

Recognizes endogenous levels of Aquaporin 3 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

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

Anti-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

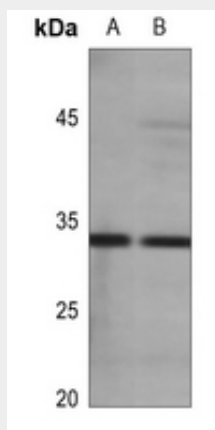
Widely expressed in epithelial cells of kidney (collecting ducts) and airways, in keratinocytes, immature dendritic cells and erythrocytes. Isoform 2 is not detectable in erythrocytes at the protein level

Anti-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](#)

Anti-Aquaporin 3 Antibody - Images



Western blot analysis of Aquaporin 3 expression in mouse kidney (A), rat kidney (B) whole cell lysates.

Anti-Aquaporin 3 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Aquaporin 3. The exact sequence is proprietary.