

## **Anti-Aquaporin 3 Antibody**

Rabbit polyclonal antibody to Aquaporin 3 Catalog # AP61506

## **Specification**

## **Anti-Aquaporin 3 Antibody - Product Information**

Application WB
Primary Accession Q92482
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

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

### **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 {ECO:0000303|PubMed:7558005, ECO:0000312|HGNC:HGNC:636}

### **Function**

Aquaglyceroporins form homotetrameric transmembrane channels, with each monomer independently mediating glycerol and water transport across the plasma membrane along their osmotic gradient (PubMed:<a href="http://www.uniprot.org/citations/12239222" target="\_blank">12239222</a>, PubMed:<a href="http://www.uniprot.org/citations/30420639" target="\_blank">30420639</a>). Could also be permeable to urea (By similarity). Also participates in cell permeability to H2O2 and H2O2- mediated signaling (PubMed:<a href="http://www.uniprot.org/citations/20724658" target="\_blank">20724658</a>). In skin, transports glycerol to the epidermis and stratum corneum, where it maintains hydration, elasticity,



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and supports lipid biosynthesis for barrier repair (By similarity). In kidney, contributes to the reabsorption of water, helping the body maintain proper fluid balance (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:O14520}. Basolateral cell membrane {ECO:0000250|UniProtKB:P47862}; Multi-pass membrane protein {ECO:0000250|UniProtKB:014520}

### **Tissue Location**

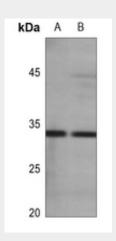
Widely expressed in epithelial cells of kidney (collecting ducts) and airways, in keratinocytes, immature dendritic cells and erythrocytes. Isoform 2 is not detectable in erythrocytes at the protein level

## 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 Cytomety
- 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

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