

**Aquaporin 5 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50992****Specification**

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**Aquaporin 5 Antibody - Product Information**

Application	<b>WB, IHC-P, E</b>
Primary Accession	<a href="#">P55064</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>35 KDa</b>

**Aquaporin 5 Antibody - Additional Information****Gene ID** 362**Other Names**

Aquaporin-5, AQP-5, AQP5

**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 5 Antibody - Protein Information****Name** AQP5 ([HGNC:638](#))**Function**

Aquaporins form homotetrameric transmembrane channels, with each monomer independently mediating water transport across the plasma membrane along its osmotic gradient (PubMed:<a href="http://www.uniprot.org/citations/18768791" target="\_blank">18768791</a>, PubMed:<a href="http://www.uniprot.org/citations/8621489" target="\_blank">8621489</a>). Plays an important role in fluid secretion in salivary glands (By similarity). Required for TRPV4 activation by hypotonicity. Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells (PubMed:<a href="http://www.uniprot.org/citations/16571723" target="\_blank">16571723</a>). Seems to play a redundant role in water transport in the eye, lung and in sweat glands (By similarity).

**Cellular Location**

Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein Note=Hypotonicity increases location at the cell membrane Phosphorylation decreases location at the cell membrane

**Tissue Location**

Detected in skin eccrine sweat glands, at the apical cell membrane and at intercellular canaliculi

(at protein level).

### **Aquaporin 5 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 5 Antibody - Images**

### **Aquaporin 5 Antibody - Background**

Forms a water-specific channel. Implicated in the generation of saliva, tears, and pulmonary secretions.

### **Aquaporin 5 Antibody - References**

Lee M.D., et al. J. Biol. Chem. 271:8599-8604(1996).  
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Blaydon D.C., et al. Am. J. Hum. Genet. 93:330-335(2013).