

## **AQP5 Polyclonal Antibody**

**Catalog # AP68476** 

## **Specification**

# **AQP5 Polyclonal Antibody - Product Information**

Application WB, IHC-P
Primary Accession P55064
Reactivity Human
Host Rabbit
Clonality Polyclonal

### **AQP5 Polyclonal Antibody - Additional Information**

Gene ID 362

**Other Names** 

AQP5; Aquaporin-5; AQP-5

Dilution

WB $\sim$ Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

#### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

#### **Storage Conditions**

-20°C

#### **AQP5 Polyclonal Antibody - Protein Information**

#### Name AOP5 (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**

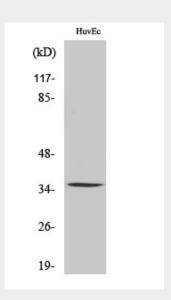
Detected in skin eccrine sweat glands, at the apical cell membrane and at intercellular canaliculi (at protein level).

## **AQP5 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# **AQP5 Polyclonal Antibody - Images**



Western Blot analysis of various cells using AQP5 Polyclonal Antibody

# **AQP5 Polyclonal Antibody - Background**

Forms a water-specific channel. Implicated in the generation of saliva, tears, and pulmonary secretions. Required for TRPV4 activation by hypotonicity (PubMed:16571723). Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells (PubMed:16571723).