

AQP5 Polyclonal Antibody

Catalog # AP68476

Product Information

Application WB, IHC-P
Primary Accession P55064
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 28292

Additional Information

Gene ID 362

Other Names AQP5; Aquaporin-5; AQP-5

Dilution WB~~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

Protein Information

Name AQP5 (HGNC:638)

Function Aguaporins form homotetrameric transmembrane channels, with each

monomer independently mediating water transport across the plasma membrane along its osmotic gradient (PubMed:18768791, PubMed:8621489). 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:16571723). 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

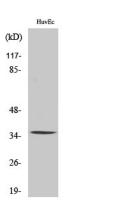
Tissue Location Detected in skin eccrine sweat glands, at the apical cell membrane and at

intercellular canaliculi (at protein level).

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).

Images



Western Blot analysis of various cells using AQP5 Polyclonal Antibody

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