

AQP5 Polyclonal Antibody
Catalog # AP68476**Specification**

AQP5 Polyclonal Antibody - Product Information

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

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** 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: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

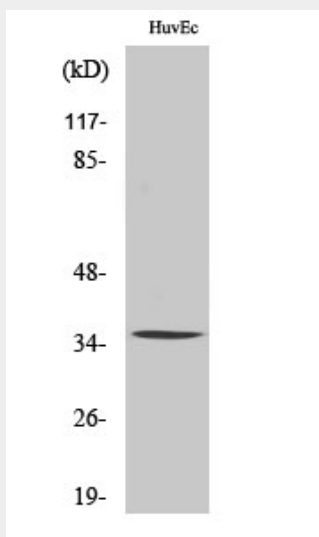
Detected in skin eccrine sweat glands, at the apical cell membrane and at intercellular canaliculi (at protein level).

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](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AQP5 Polyclonal Antibody - Images



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).