

# Aquaporin 5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50992

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P55064</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28292

## Additional Information

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Gene ID	362
Other Names	Aquaporin-5, AQP-5, AQP5
Dilution	WB~~1:1000 IHC-P~~N/A
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

## Protein Information

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Name	AQP5 ( <a href="#">HGNC:638</a> )
Function	Aquaporins form homotetrameric transmembrane channels, with each monomer independently mediating water transport across the plasma membrane along its osmotic gradient (PubMed: <a href="#">18768791</a> , PubMed: <a href="#">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="#">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).

## Background

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

## References

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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).

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