

# Aquaporin 5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50992

## Product Information

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

## Additional Information

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<b>Gene ID</b>	362
<b>Other Names</b>	Aquaporin-5, AQP-5, AQP5
<b>Dilution</b>	WB~~1:1000 IHC-P~~N/A
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	AQP5 ( <a href="#">HGNC:638</a> )
<b>Function</b>	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).
<b>Cellular Location</b>	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
<b>Tissue Location</b>	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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