

AQP5 Polyclonal Antibody

Catalog # AP68476

Product Information

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|--------------------------|------------------------|
| Application | WB, IHC-P, IF, ICC, E |
| Primary Accession | P55064 |
| Reactivity | Human, Rat, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 28292 |

Additional Information

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|---------------------------|--|
| 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 IF~~1:50~200 ICC~~N/A E~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

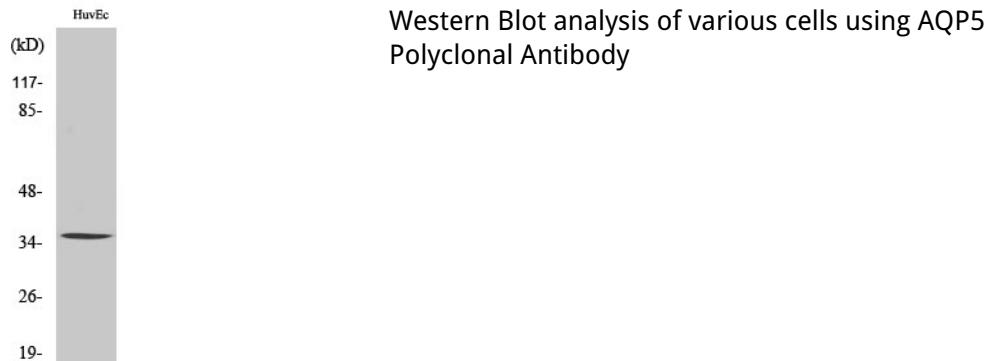
Protein Information

| | |
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| 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). |

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



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