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AQP5 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12301b

Specification

AQP5 Antibody (C-term) Blocking peptide - Product Information

Primary Accession P55064

AQP5 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 362

Other Names
Aquaporin-5, AQP-5, AQP5

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AQP5 Antibody (C-term) Blocking peptide - Protein Information

Name AQP5

Function
Forms a water-specific channel (PubMed:8621489, PubMed:18768791). 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).

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AQP5 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

AQP5 Antibody (C-term) Blocking peptide - Images

AQP5 Antibody (C-term) Blocking peptide - Background

Aquaporin 5 (AQP5) is a water channel protein. Aquaporinsare a family of small integral membrane proteins related to themajor intrinsic protein (MIP or AQP0). Aquaporin 5 plays a role inthe generation of saliva, tears and pulmonary secretions. AQP0,AQP2, AQP5, and AQP6 are closely related and all map to 12q13.

AQP5 Antibody (C-term) Blocking peptide - References

Shen, Y., et al. Respir Physiol Neurobiol 171(3):212-217(2010)Shen, L., et al. Biomed. Pharmacother. 64(5):313-318(2010)Shankardas, J., et al. Mol. Vis. 16, 1538-1548 (2010) :Dimasi, D.P., et al. Mol. Vis. 16, 562-569 (2010) :Nejsum, L.N., et al. Proc. Natl. Acad. Sci. U.S.A. 99(1):511-516(2002)