Anti-Aquaporin 5 Antibody

Rabbit polyclonal antibody to Aquaporin 5
Catalog # AP61326

Product Information

Application	WB
Primary Accession	P55064
Other Accession	Q9WTY4
Reactivity	Human, Mouse, Rat, Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28292

Additional Information

Gene ID	362
Other Names	Aquaporin-5; AQP-5
Target/Specificity	Recognizes endogenous levels of Aquaporin 5 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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 Detected in skin eccrine sweat glands, at the apical cell membrane and at

Tissue Location   intercellular canaliculi (at protein level).

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Aquaporin 5. The exact sequence is proprietary.

Images
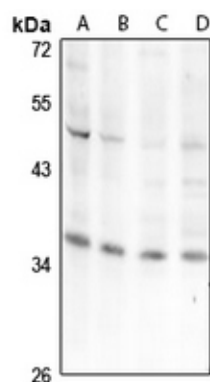
Western blot analysis of Aquaporin 5 expression in CT26 (A), C6 (B), U87MG (C), MCF7 (D) whole cell lysates.

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