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Product datasheet for AP20601PU-M

Aquaporin 5 (AQP5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 220-270 of Human AQP5
Specificity:	This antibody detects endogenous levels of AQP5 protein.
Formulation:	PBS with 0.02% Sodium Azide, 50% Glycerol, pH7.2
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 36 kDa
Gene Name:	aquaporin 5
Database Link:	Entrez Gene 11830 Mouse Entrez Gene 25241 Rat Entrez Gene 362 Human P55064

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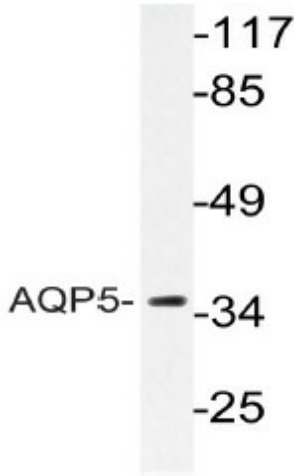
Background: Aquaporins (AQPs) are a large family of integral membrane water transport channel proteins that facilitate the transport of water through the cell membrane. This function is conserved in animals, plants and bacteria. At least ten isoforms of aquaporin have been identified in mammals, designated AQP0 through AQP9. Aquaporins are widely distributed and it is not uncommon for more than one type of AQP to be present in the same cell. Although most aquaporins are only permeable to water, AQP3, AQP7 and AQP9 are permeable to urea and glycerol. AQP2 is the only water channel that is activated by vasopressin to enhance water reabsorption in the kidney collecting duct. Aquaporins are involved in renal water absorption, generation of pulmonary secretions, lacrimation, and the secretion and reabsorption of cerebrospinal fluid and aqueous humor. In the lung, the 27-kDa AQP5 is responsible for the majority of water transport across the apical membrane of type I alveolar epithelial cells. The gene encoding human AQP5 maps to chromosome 12q13.

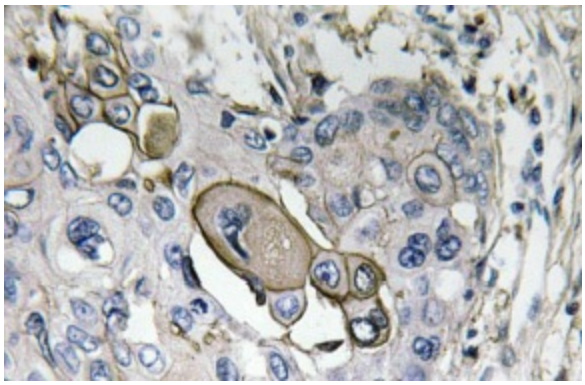
Synonyms: AQP-5

Protein Families: Druggable Genome, Transmembrane

Product images:



Western blot analysis of AQP5 Antibody in extracts from HUVECcells.



Immunohistochemistry analysis of AQP5 Antibody in paraffin-embedded human lung carcinoma tissue.