

Product datasheet for **AP20765PU-N**

Aquaporin 3 (AQP3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on paraffin sections 1/50 - 1/200. Western Blot: 1:500-1:1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of AQP3 protein. (region surrounding Val214)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
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.
Gene Name:	aquaporin 3 (Gill blood group)
Database Link:	<u>Entrez Gene 11828 Mouse</u> <u>Entrez Gene 65133 Rat</u> <u>Entrez Gene 360 Human Q92482</u>



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Background:

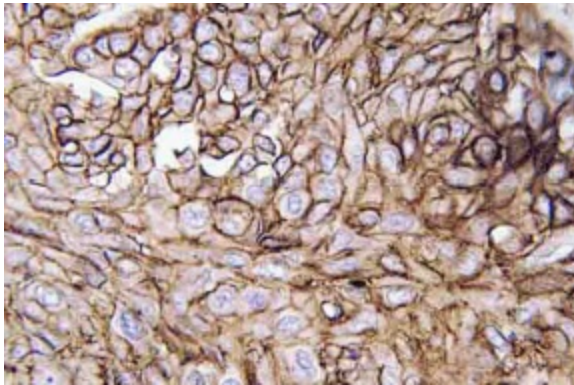
Aquaporins (AQPs) are a large family of integral membrane water transport channel proteins that facilitate the transport of water through the cell membrane. This function is conserved in animals, plants and bacteria. Many isoforms of aquaporin have been identified in mammals, designated AQP0 through AQP10. 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, AQP9 and one of the two AQP10 transcripts are also 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. AQP3 is expressed in the basolateral membrane by collecting duct cells in the kidney.

Synonyms:

AQP-3

Protein Families:

Druggable Genome, Transmembrane

Product images:

Immunohistochemical analysis in paraffin-embedded human lung carcinoma tissue using Aquaporin-3 antibody (Cat.-No. AP20765PU-N).