

# Product datasheet for TA328656

## Aquaporin 1 (AQP1) Rabbit Polyclonal Antibody

### **Product data:**

#### **Product Type: Primary Antibodies** IHC, WB **Applications:** Recommended Dilution: WB: 1:200-1:2000; IHC: 1:100-1:3000 **Reactivity:** Human, Mouse, Rat Host: Rabbit **Clonality:** Polyclonal Immunogen: Peptide (C)KVWTSGQVEEYDLDADDIN corresponding to amino acid residues 242-260 of human AQP1. Intracellular, C-terminus. Formulation: Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.025% NaN3. Add 50 ul double distilled water (DDW) to the lyophilized powder. **Reconstitution Method: Purification:** Affinity purified on immobilized antigen. **Conjugation:** Unconjugated Storage: Store at -20°C as received. Stability: Stable for 12 months from date of receipt. Gene Name: aquaporin 1 (Colton blood group) Database Link: NP 932766 Entrez Gene 11826 MouseEntrez Gene 25240 RatEntrez Gene 358 Human P29972



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#### **GRIGENE** Aquaporin 1 (AQP1) Rabbit Polyclonal Antibody – TA328656

Background:Aquaporin 1 (AQP-1) belongs to a family of membrane proteins that allow passage of water<br/>and certain other solutes through biological membranes. The family is composed of 13<br/>members (AQP-0 to AQP-12). The aquaporins can be divided into two functional groups<br/>based on their permability characteristics: the aquaporins that are only permeated by water<br/>and the aquaglyceroporins that are permeated by water and other small solutes such as<br/>glycerol. AQP-1 together with AQP-2, AQP-4 and AQP-5 belongs to the first group. Little is<br/>known about the function of the two newest members, AQP-11 and AQP-12. The proteins<br/>present a conserved structure of six transmembrane domains with intracellular N- and C-<br/>termini. The functional channel unit, contains four pores. AQP-1 is widely expressed in<br/>several organs with prominent expression found in kidney, lung, red blood cells intestine and<br/>brain. Studies with mice lacking AQP-1 show that the channel has a critical role in urine<br/>concentration. In addition, AQP-1 expression in tumor cells was shown to contribute to<br/>enhanced tumor spread and metastatic potential.

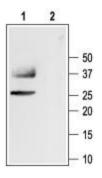
Synonyms: AQP-CHIP; CHIP28; CO

**Protein Families:** 

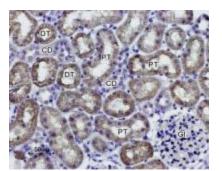
AQP-CHIP; CHIP28; CO

### amilies: Druggable Genome, Ion Channels: Other, Transmembrane

### **Product images:**



Western blot analysis of rat kidney membranes: 1. Anti-Aquaporin 1 antibody, (1:400). 2. Anti-Aquaporin 1 antibody, preincubated with the control peptide antigen.



Expression of Aquaporin 1 in rat kidney. Immunohistochemical staining of paraffinembedded rat kidney sections using Anti-Aquaporin 1 antibody, (1:100). AQP1 staining (brown) is present in both distal (DT) and proximal (PT) convoluted tubules in the renal cortex. Note that a weak staining is also present in collecting ducts (CD) while glomeruli (GI) are negative. Hematoxilin is used as the counterstain.

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