

Product datasheet for **TA329018**

Aqp6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)EPQKKESQTNSEDETEVSV corresponding to amino acid?Å residues 259-276 of rat AQP6.?Å ?Å (Accession Q9WTY0). 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, 0.05% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
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 6
Database Link:	NP_071517 Entrez Gene 11831 Mouse Entrez Gene 29170 Rat Q9WTY0



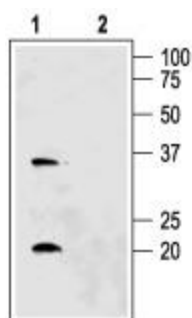
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Background:

It has been long known that water must cross biological membranes by means other than simple diffusion. However, it was not until recently, with the discovery of the Aquaporin 1 water channel that this question was answered. The importance of this discovery was underlined by the awarding, in 2003, the Nobel Prize in Chemistry to Peter Agre for the discovery of water channels. Today, eleven mammalian proteins that belong to the Aquaporin family have been identified. The proteins present a conserved structure of six transmembrane domains with intracellular N and C-termini. Aquaporin 6 (AQP6) appears to be exclusively expressed in the kidney, particularly in intracellular vesicles in collecting duct intercalated cells. Unlike the other aquaporins, AQP6 was found to allow permeation of anions following activation with acidic pH or Hg²⁺ ions. Increased expression of AQP6 was shown in models of chronic alkalosis and lithium-induced nephrogenic diabetes insipidus.

Synonyms:

AQP-6; AQP2L; Aquaporin-2-like; hKID; KID

Product images:

Western blot analysis of rat kidney membranes:
1. Anti-Aquaporin 6 antibody, (1:200). 2. Anti-Aquaporin 6 antibody, preincubated with the control peptide antigen.